

HKUST

UNICORN DAY 2026

From Ideas to Miracles –
35 Years of Impact and Beyond



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From Ideas to Miracles –
35 Years of Impact and Beyond



Unicorn Day 2026
Programme

Check out the highlight
photos of the event!



About The Hong Kong University of Science and Technology

The Hong Kong University of Science and Technology (HKUST) (<https://hkust.edu.hk/>) is a world-class university known for its innovative education, research excellence, and impactful knowledge transfer.

With a holistic and interdisciplinary pedagogy approach, HKUST was ranked 6th in the QS Asia University Rankings 2026, 3rd in the Times Higher Education's Young University Rankings 2024, and 19th globally and 1st in Hong Kong in the Times Higher Education's Impact Rankings 2025. Eleven HKUST subjects were ranked among the world's top 50 in the QS World University Rankings by Subject 2026. In addition, in the Times Higher Education World University Rankings by Subject 2026, HKUST's Computer Science discipline which encompasses areas such as artificial intelligence and machine learning, has been ranked No. 1 in Hong Kong for ten consecutive years. Our graduates are highly competitive, consistently ranking among the world's top 30 most sought-after employees. In terms of research and entrepreneurship, over 80% of our work was rated "internationally excellent" or "world leading" in the Research Assessment Exercise 2020 of the Hong Kong's University Grants Committee.

As of May 2026, HKUST members have founded over 1,900 active start-ups, including 11 Unicorns and 22 exits (IPO or M&A).



Acknowledgement

Gold Sponsors



Silver Sponsor



Bronze Sponsor



Supporting Organizations



Purpose is about lifting others.

As One Group, OCBC enables aspirations all across ASEAN and Greater China.



Scan to see how Yuen Kei's determination uplifted her community.



World No.1 BC3 event bocce champion

Ho Yuen Kei

For now,
and beyond



ABOUT US

Lion X Ventures is a dynamic and forward-thinking venture capital fund with a mission to promote the technology innovation in Southeast Asia.

Partnered with OCBC Bank, one of the region's leading financial institutions, we are at the forefront of the "Go-to-SEA" wave, supporting visionary entrepreneurs and early-stage companies in the ever-evolving landscape of digital technology.

STRATEGY

Investment strategy

Lion X Ventures focuses on early-stage investments, identifying and nurturing companies with exceptional growth potential.

Our approach is underpinned by a profound knowledge of the Greater China and Southeast Asian market, and we depend on OCBC Bank's and our esteemed strategic partners' extensive network and industry expertise to gain access to unique and high-potential investment opportunities.

INVESTMENT

Investment industry

Focus on digital technologies, consumer technologies, medical technologies and ESG, where OCBC Bank and our strategic partners, such as Yusys Technologies (300674), Brandmax (300805), Honsun Medical (832278), DaoCloud, CalmCar, possess abundant vertical industry know-how and established in-depth resource networks.



Digital
Technology



Consumer
Technology



Medical
Technology



ESG

Email: contact@lionxventures.com



Google for Startups Cloud Program

Early stage startups can get up to \$350,000 in Cloud credits through the Program, and Series B+ startups can continue scaling with customized support and solutions.



Register here

PROGRAMME RUNDOWN

PART I – Morning Plenary

10:00-12:00 **Morning Plenary**
@Main Hall, G/F, Shaw Auditorium

PART II – Concurrent Session

14:30-16:30 **Investment Pitching Sessions**
Materials, Energy and Sustainability (MES)
@2/F, Shaw Auditorium

Biomedical and Healthcare (BMH)
@2/F, Shaw Auditorium

Electronics, AI and Smart Systems (EAS)
@Main Hall, G/F, Shaw Auditorium

International Launchpad for Innovation & Startups
@InnoBay, 5/F, Martin Ka Shing Lee Innovation Building

16:30-17:30 **Networking Session**
@G/F, Shaw Auditorium

17:30 **End of Event** (Shuttle bus service available)

SHUTTLE BUS ARRANGEMENT

Pick-up location: HKUST Shaw Auditorium

From HKUST to Tseung Kwan O MTR Station
Departure Time: 17:35

From HKUST to Diamond Hill MTR Station
Departure Time: 17:45

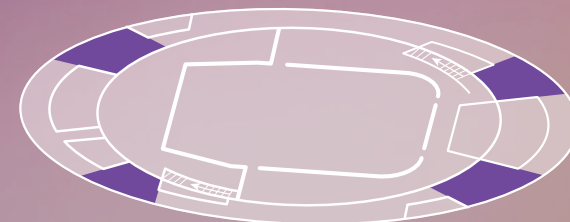
PROGRAMME RUNDOWN



SHAW AUDITORIUM

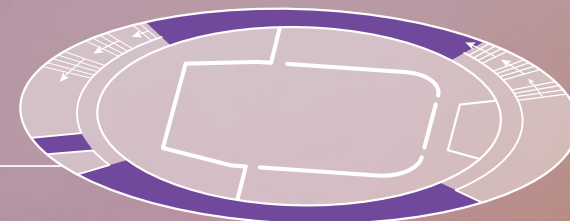
2/F

LUNCH
INVESTMENT PITCHING
• Bio-Medical and Healthcare (BMH)
• Materials, Energy and Sustainability (MES)



1/F

COFFEE & TEA*, LUNCH
SHOWCASE
• Booth Number 68-98



G/F

MORNING PLENARY
SHOWCASE
• Booth Number 01-67
INVESTMENT PITCHING
• Electronics, AI and Smart Systems (EAS)
NETWORKING



* Coffee and tea are served in the morning only.

MARTIN KA SHING LEE INNOVATION BUILDING & CHENG YU TUNG BRIDGE



DEEPTeCH SHOWCASE

📍 G/F & 1/F, Shaw Auditorium

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DEEPTech SHOWCASE

G/F & 1/F,
Shaw Auditorium

AI-Powered Home Healthcare Management System for COPD Patients

This AI-powered home healthcare system redefines COPD management by integrating three technologies that enable continuous, personalized, and closed-loop care

The AI-powered home healthcare system developed by the team integrates three major innovations: an earbud for clinical-grade lung monitoring, a mobile app for early exacerbation prediction (such as cough and breathing sounds), and a depth-sensing camera for contactless breathing training with real-time visual biofeedback. This system empowers patients to effectively monitor and manage their condition from the comfort of their homes.

- EasySpiro: A self-contained system using earbud sensors and AI to deliver effortless, accurate, clinical-grade COPD assessment at home environments.
- AECOPDector: A smartphone application analyzing cough and breathing sounds with AI to predict COPD exacerbations early and enable timely medical interventions.
- DeepBreath: An AI system with contactless depth camera guiding breathing exercises, classifying patterns, and estimating lung volume for COPD rehabilitation support.



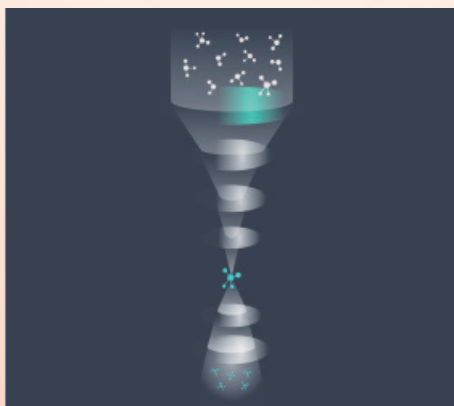


Alena Bio Limited

AI images classify cell status, predict drug efficacy—accelerating affordable discovery for hard-to-drug diseases

Our AI-driven drug screening platform utilizes deep learning algorithms to classify cell status and evaluate drug efficacy based on images, enabling rapid, cost-effective drug discovery for complex diseases lacking ideal screening markers.

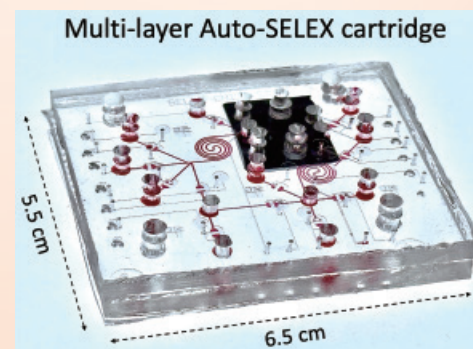
- High accuracy: Our platform achieves over 99% accuracy for cell status classification. Multiple pipelines including idiopathic pulmonary fibrosis (IPF) and Leigh Syndrome have been established and validated
- High versatility: Our platform can be applied to diseases with unknown MOA
- Proven in-house pipeline: From in vitro screening to animal validation, our pipeline has successfully generated lead compounds for IPF and Leigh Syndrome



APTALogic (Microfluidic SELEX System for an Generation of Aptamers)

Auto-SELEX automates and accelerates the tedious and lengthy process of identifying target-specific aptamers, which are synthetic single-stranded oligonucleotides that fold into three-dimensional structures, enabling high-affinity and high-selectivity target molecule recognition. Often termed chemical antibodies, aptamers offer key advantages over monoclonal antibodies, including better thermal stability, lower cost, minimal batch-to-batch variation, and ease of labeling or conjugation without affinity loss. Thus, aptamers can replace antibodies in biosensors for detecting pathogens, biomarkers, and contaminants, as well as in therapeutics for treating cancers, infectious diseases and immune disorders. Auto-SELEX uniquely delivers hands-free, end-to-end aptamer selection against a user-defined target within hours rather than weeks taken up by the conventional tedious selection protocol which involves many repetitive steps. No comparable commercial system currently exists, positioning Auto-SELEX as a first-in-class solution for rapid, reliable, and scalable aptamer discovery.

- Fully automated, end-to-end identification of new aptamers against user-defined targets with unmatched speed.
- Proprietary selection technology that identifies target-specific aptamers with high binding affinity.
- Razor blade business model enabled by disposable microfluidic cartridge.





Edge Science Limited

An edge computer for solving enzyme design problem - the rate-limiting step in engineering biology - by generative AI

Our technology democratizes generative AI for enzyme design through the ESC-1 Edge Computer. Utilizing our patented method, the system efficiently explores de novo variants while ensuring bio-safety constraints via an proprietary optimizer for protein language models. By co-designing algorithms for NVIDIA edge chips, it has advantages over cloud alternative solutions by eliminating IP leakage risks and high starting costs. The system has delivered a 5-fold improved novel enzyme at early adopters.

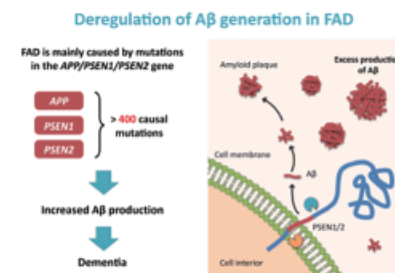
- Lower starting cost: Accelerated protein foundation model on edge devices reduce reliance on cloud services, enabling more cost-effective experimental cycles.
- Multi-substrate complexity: Our technology efficiently models multi-substrate reactions and optimizes across competing objectives using a unified reward formulation.
- Safety-by-design: By embed biosafety consideration into the training process, the system by design comply with the GMLP released by FDA.



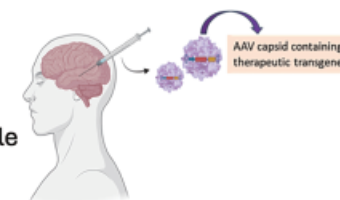
Development of Genome Editing Strategy for Familial Alzheimer's Disease Therapy

Editact Therapeutics is committed to developing innovative genome editing therapies to meet unmet medical needs

- The research team has pioneered a **"one-for-many"** genome editing strategy, with potential to develop into **long-term disease-modifying therapy** for 2-3 million patients afflicted with FAD
- **ED001**, the genome editing therapy targeting the mutant *APP* gene, is currently in the early phase of IND-enabling studies



- ✓ **One-for-many:**
A single tool to address multiple distinct mutations within a gene
- ✓ **High specificity:**
Designed to only target the mutant gene allele
- ✓ **Vast pipeline potential:**
Can be readily adapted to address 160+ autosomal dominant diseases

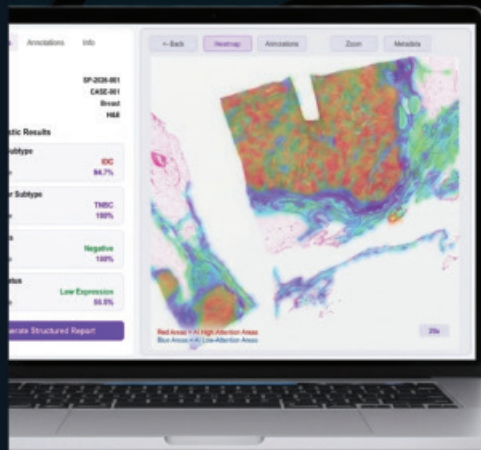


Program	Indication	Target Gene	Hit-to-Lead	Proof of Concept	IND-Enabling	IND Approval	Clinical Phase 1
ED001	FAD	APP					
ED002	FAD	PSEN1					
ED003	AxD	GFAP					



SMARTPATH

**Your Co-Pilot Intelligence
Empower Cancer Diagnosis**



1 min
Whole Slide Diagnosis



Over 95%
Tumor Specialty Precision

Get to
know more



Lung
Cancer



Colorectal Cancer



Gastric Cancer



Breast
Cancer

**Establish your Trustworthy AI
in an instant !**



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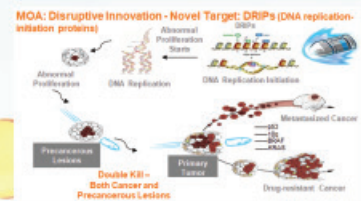
Rm 5017, Innovation Building,
Innobay, Clear Water Bay, N.T.



From Precancerous Lesions to Cancer

DRIP-Targeting Drugs: 100% Clearance in Trials

Principal Investigator: Prof. Chun LIANG



Breakthrough MOA: Targeting DRIPs

Disruptive Innovation:

- **Novel Target:** DNA replication-initiation proteins (DRIPs)
- **Double Kill:** Eradicates both cancer and precancerous lesions
- **Broad-Spectrum Efficacy:** Targets primary tumors, drug-resistant cancers, and metastases

100% Clearance in Skin Cancer (Phase I Data)

AK case	D0	D16	D24
Right CR			
Left CR			

**100%
Clearance**
(Phase I Clinical
Trial Data)

Pipeline Highlights:

- Phase II: Skin cancer (China/Australia)
- Pre-IND: Cervical cancer
- Pre-PCC: Multiple cancers



Why DRIP Inhibitor?

- ✓ **First-in-class** broad-spectrum anticancer drugs
- ✓ **Up to 100% tumor inhibition** with a low toxicity towards normal
- ✓ **cellsFuture potential:** Treats precancerous lesions before cancer develops



Key Achievements

- Phase I success -> Phase II underway for skin cancer
- IND-enabling studies for cervical cancer
- Pipeline expansions – for other cancers

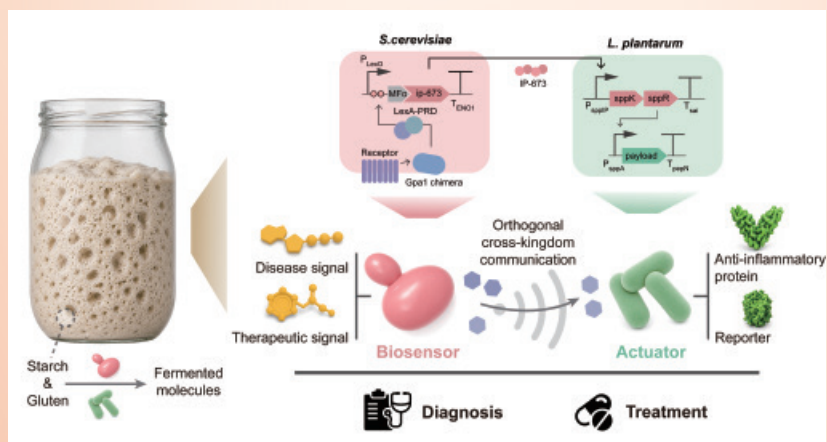


EvoMind Medicine

A new class of smart probiotic therapeutics inspired by nature

SINERGY combines engineered yeast and probiotic bacteria in a stable division-of-labor consortium. Yeast biosensors detect inflammation-associated signals, then activate *L. plantarum* to secrete therapeutic payloads locally through an orthogonal communication circuit. In a DSS colitis model, the platform achieved biomarker-responsive drug delivery, reduced inflammatory damage, and promoted recovery of beneficial microbiota functions, supporting its potential as a next-generation gut therapeutic platform.

- Division-of-labor living therapeutic platform
- Long-term safety and intrinsic gut-health benefit
- In situ sensing and localized therapeutic delivery for IBD



GY HEALTH LIMITED

Next-generation portable recombinant antivenom for snakebite envenoming

Our technology revolutionizes snakebite treatment by replacing animal-derived antivenoms with a full human recombinant monoclonal antibody (mAb)-based antivenom. Driven by proteomics and high-throughput single B-cell antibody discovery platform, we developed a high-potent recombinant antivenom that enables mass production via scalable CHO cell GMP manufacturing. This recombinant antivenom neutralizes toxins without allergic risks and enable a shift to portable subcutaneous auto-injectors for immediate field first aid use.

- Low-allergy human antibodies: Our single B-cell platform develops full human mAbs, eliminating the 30% allergy risk of animal-derived antivenom for unmatched safety and precision.
- Ready-to-use auto-injector: We shift treatment from hospitals to on-site first aid with a portable subcutaneous auto-injector, enabling immediate self-rescue during the critical golden window.
- Scalable GMP manufacturing: Replacing unstable animal farms with CHO cell-based production GMP facilities ensures flawless batch consistency, ultra-high purity, and scalable mass production.



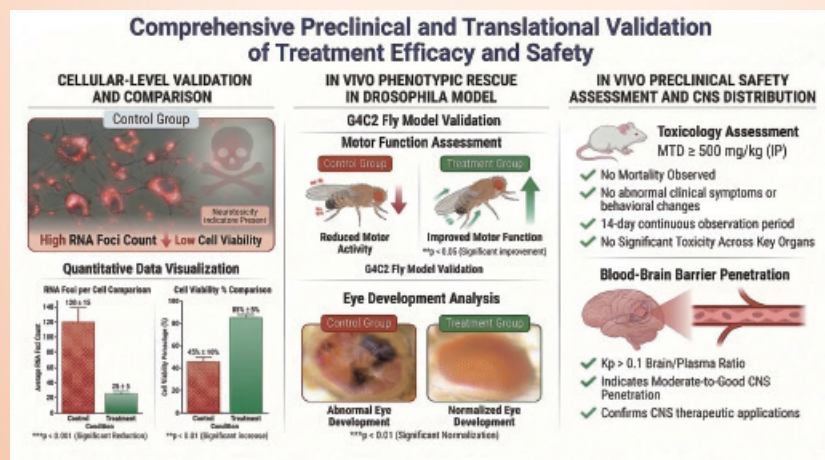


GY HEALTH LIMITED

GY-368: a first-in-class oral small molecule targeting the genetic root of amyotrophic lateral sclerosis (ALS)

A revolutionary AI-designed drug targeting the most common genetic root cause of ALS to stop motor neuron death.

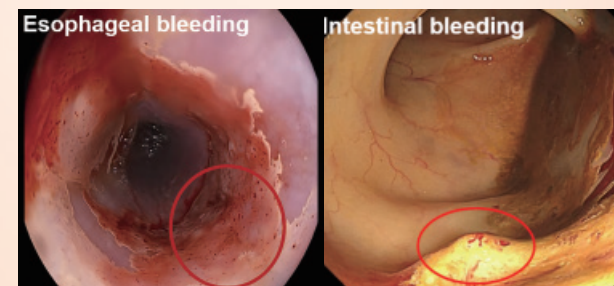
- Precision Targeting: First-in-class molecule clearing toxic RNA aggregates caused by C9orf72 gene mutations to protect neurons.
- AI-Driven Platform: Built on an AI drug-screening platform designed to precisely target the unique 3D structures of ALS disease triggers.
- Proven Delivery & Safety: A highly safe small molecule that successfully crosses the blood-brain barrier to restore motor functions.



LuxVita Med

Our core technology is a visible light-controllable bioadhesive platform that delivers exceptional, on-demand tunable adhesion in wet environments. It enables rapid, reliable hemostasis and durable sealing for surgery and trauma care. The photoresponsive design gives surgeons precise temporal and spatial control over adhesion, markedly improving usability and clinical performance. Composed entirely of nutrient-grade, biocompatible, and degradable components, the platform avoids toxicity, antigenic reactions, and persistent residues associated with conventional agents. By overcoming poor wet adhesion, limited controllability, and biosafety concerns, our technology offers a transformative solution for surgical hemostasis and tissue sealing across open, minimally invasive, and endoscopic procedures.

- On-demand adhesion: Rapid photocuring with visible light (e.g., white LED) for precise, targeted adhesion.
- Rapid sealing: Strong adhesive strength and flow-resistant seal, achieving immediate, durable hemostasis (≤20 s for arterial bleeding).
- Nutrient-based composition: Biocompatible, degradable formulation versus conventional synthetic, non-degradable glues.
- Applications: Topical and tissue sealant for trauma and surgical bleeding, enabling fast, reliable bleeding control in traumatic, minimally invasive, and GI endoscopic surgeries.



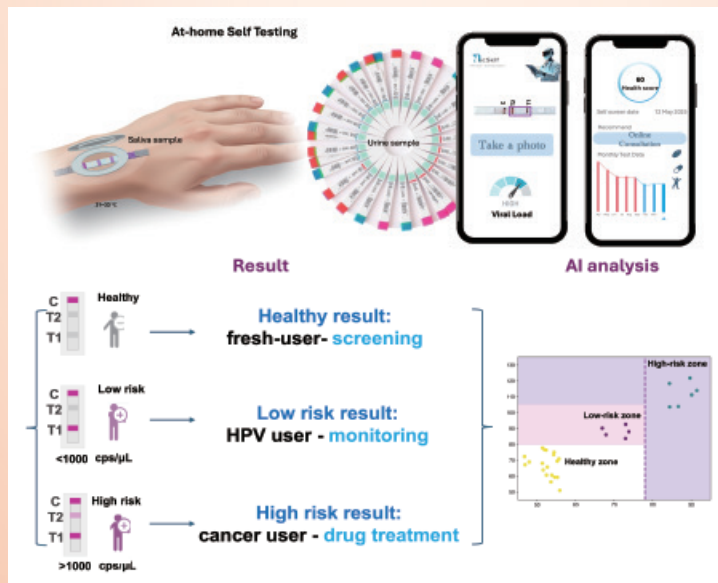


NucSelf Biotech Limited

From lab to home: your personalized "DNA grade" STD (HPV) test

Break DNA home-testing barrier of contamination. Our patent is paper-based and self-cleaning, containing high-accuracy viral load detection. It relies on 2-min at-home operation with no power supply required.

- Targets STDs IVD market for daily health management, transmission prevention
- Skin-temp powered strip can be directly sold online to daily customer to protect patent privacy
- Eliminates amplicon contamination for 100% accuracy, removing barriers in non-lab settings



Opharmic

Innovate for impact by creating ultrasound-based solutions that address unmet medical needs, improving patient outcomes and provider efficiency

MeticStim - Myopia Management

To deliver the first non-invasive cellular stimulation innovation to address the root biological cause of myopia: axial elongation. Opharmic's ultrasound therapy aims to activate channels and increase cell activity, offering a safe, convenient, and effective solution for the full spectrum of myopia management.

- Preclinically Proven: Safe and effective, study suggests ultrasound reduces myopia progression up to 55% compared to 0.1% Atropine eye drop
- Non-pharmaceutical Approach: Better comfort and conveniences with no chemical side
- Commercial Partner Readiness: Applicable across clinic, home, and consumer markets



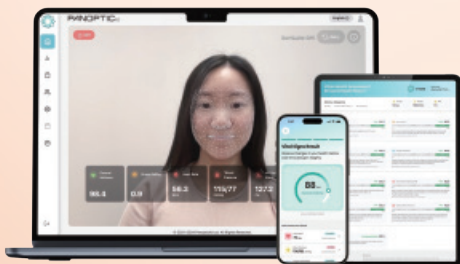
PANOPTIC^{AI}

Panoptical AI Limited

Panoptical AI/Vitals™: World's first FDA-cleared mobile app for contactless health monitoring

Panoptical AI is Hong Kong's leading healthtech company, revolutionizing vital-sign monitoring with FDA-cleared remote photoplethysmography (rPPG). Our award-winning Vitals SDK transforms smartphones, tablets, and computers into medical grade monitors, delivering accurate readings in 25 seconds without wearables. It measures heart rate, heart rate variability, breathing rate, oxygen saturation, blood pressure, stress level, and more. This breakthrough enables healthcare, wellness, and insurance industries to scale remote patient monitoring, empowering early detection and chronic disease management.

- FDA-cleared rPPG technology converts any device with a camera into a contactless, medical-grade vital signs monitor in 25 seconds.
- Proven accuracy across skin tones, lighting, and motion; on-device processing for privacy, security, and scalable cross-platform deployment.
- Applications: remote patient monitoring, mass health screening, telehealth, digital triage, wellness, insurance, elderly care, etc.

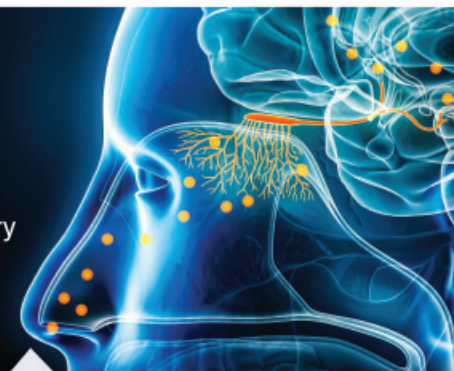


PENTIDE
鹏跃医药

PenTide Therapeutics Limited

Semaglutide Nasal Spray

Fast, painless intranasal delivery for weight management, with nose-to-brain delivery enabling potential CNS applications.



Powered by proprietary nasal delivery technology, the formulation stabilizes peptides, enables rapid nasal absorption, and enhances bioavailability—revolutionizing the treatment of central nervous system and metabolic disorders.



Non-invasive

Painless
alternative to
injections



**Enhanced
Bioavailability**

Efficient nasal
absorption



Broad Potential

Metabolic &
CNS indications



PhoMedics Limited

Glanzir®: Ushering pathology into the "slide-free" era from fresh tissue to digital H&E in just 3 minutes

Glanzir® bridges the gap from fresh tissue to digital "Computational H&E" images in just 3 minutes. By providing a rapid, high-fidelity, and non-destructive diagnostic paradigm, Glanzir™ ensures clinical precision while significantly accelerating surgical turnover and liberating pathology staff from manual bottlenecks.

- Slide-Free, Stain-Free Histological Imaging
- 3-minute Rapid Imaging
- Computational H&E Imaging



QuantModE Biotech | 奎慕生物科技

THE HONG KONG
UNIVERSITY OF SCIENCE
AND TECHNOLOGY

World's First Ultra Early **Blood** Test for Advanced Adenomas & Stage 0 Colorectal Cancer

QuantModE Biotech, founded by Prof. Lisheng ZHANG, has developed EpiLumenix, an **AI-powered** blood test using **cell-free RNA Epi-transcriptomic** signatures to detect **Stage 0 Colorectal Cancer & precancerous lesions** early, shifting cancer care toward proactive prevention.

Current Health Gaps ⚠️

- Colonoscopy is highly invasive and inconvenient.
- Stool-based tests often miss early cancer warning signs.

Our Solution 💡 **EpiLumenix**

EpiLumenix is a cutting-edge, non-invasive blood screening platform designed to detect **Stage 0 Colorectal Cancer & Advanced Adenomas** accurately.



* supported by our cohort study of over **260 participants**
* for Stage 0 Colorectal Cancer & Advanced Adenomas

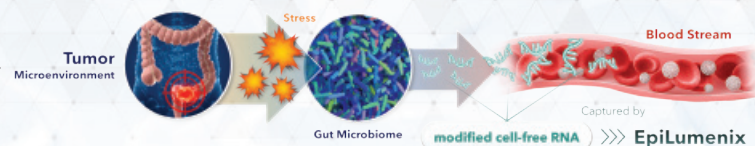
Currently the HIGHEST sensitivity in the world!



Microbiome-derived cell-free RNA epitranscriptomics captures dynamic tumor microenvironment fingerprints.



Patented sequencing technology with proprietary AI enable high-precision, quantitative detection of cell-free RNA modifications.



The test requires only 2 mL of peripheral blood and does not require any special preparations, enabling a patient-friendly workflow and higher screening compliance.

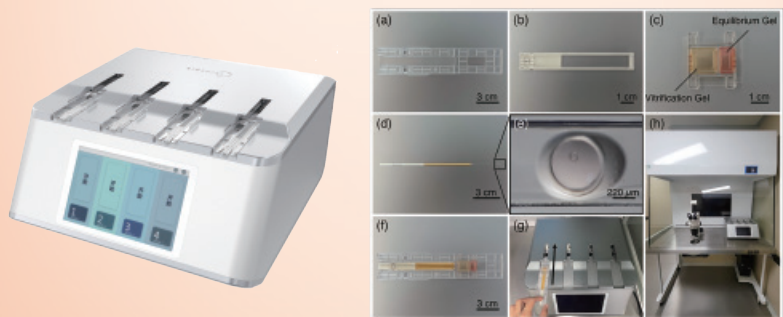


Shenzhen Biorocks Biotechnology Company

World's first automated embryo vitrification and warming system enabling standardized, high-survival cryopreservation for human IVF and livestock breeding

Biorocks has developed the world's first automated embryo vitrification and warming system using proprietary microfluidic and hydrogel-based solution exchange technology. It standardizes cryopreservation, reduces operator dependency, minimizes osmotic shock, and improves consistency, survival, and pregnancy outcomes. The platform serves both human assisted reproduction and livestock embryo transfer, enabling high-throughput, reproducible, and scalable embryo freezing and thawing.

- World's first fully automated vitrification and warming platform, standardizing embryo cryopreservation by eliminating manual variability.
- One platform serving both human IVF and livestock breeding, enabling high-throughput operation, simplified training, and scalable commercialization.
- Livestock business is scaling rapidly: revenue grew 5x in 2025, Q1 2026 already exceeded full-year 2025, and 2026 revenue is targeted to grow another 5x; first automated IVF-related NMPA approval expected in 2028.



Shenzhen eYoung BioTech Co., Ltd.

At eYoung, we bridge the gap between data and longevity. As a tech-driven service leader, we focus on identifying aging biomarkers to build sophisticated, personalized assessment models. Our "Testing-Assess-Intervene-Optimize" whole-service offers a quantifiable and actionable framework for health management. By providing professional data modeling and dynamic monitoring, eYoung helps users actively slow biological aging and reclaim their healthspan.



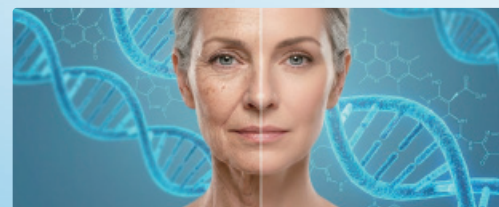
BioLogue·Age

DNA Methylation Aging Test

Extensive scientific research shows that lifestyle or environmental factors will quietly reshape DNA methylation patterns. BioLogue Age provides precise DNA methylation profiling, allowing these subtle biological changes to be accurately captured and measured.

DNA methylation reveals true cellular vitality

DNA methylation is a key mechanism that regulates gene activity. If DNA is the "instruction manual" of life, methylation is the highlighter-marking which genes are turned on or off. As the body ages, these methylation patterns follow a predictable shift.



Biological Age

46.5

Your Variable Health Reality

Chronological Age

37.2

Your Unchangeable Timestamp

Testing



Reports



SINO-HK Pharm Technology Limited

First-in-class Traditional Chinese Medicine new drug R&D project for the treatment of Benign Prostatic Hyperplasia (BPH)

Optimized from classic TCM Prostate Decoction, this 1.1-class innovative drug targets BPH with dampness retention syndrome, an unmet clinical blank. It shows better efficacy than marketed TCM drugs via multi-pathway regulation, with proven safety and 3 authorized patents, for mainland 1.1 & Hong Kong innovative TCM registration.

- Fill global BPH TCM indication market blank
- Better efficacy than mainstream commercial TCM drugs
- Solid IP layout + dual innovation drug qualification potential

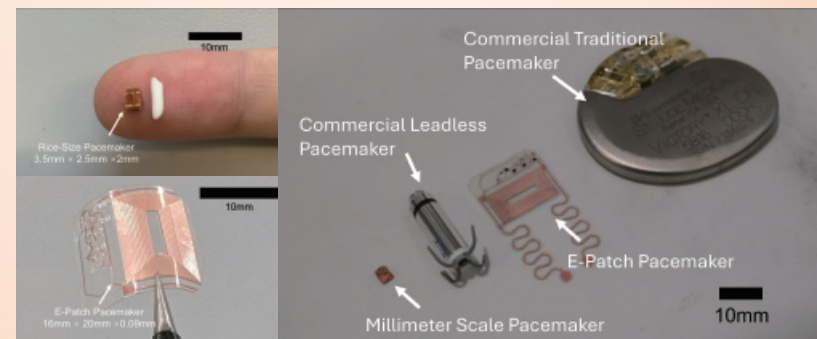


Smart Transducers and Vibration Laboratory

A battery-less, millimeter-scale leadless pacemaker system enabling real-time programmable chronic electrotherapy via sub-MHz wireless power transfer

This battery-less, millimeter-scale (3.5×2.5×2 mm) leadless pacemaker utilizes 900 kHz inductive coupling for wireless power and real-time programming. The system integrates a 3D coil antenna and a two-stage voltage doubler on a flexible PCB. A ferrite shield mitigates electromagnetic interference while focusing magnetic flux. It supports percutaneous, intravascular, or epicardial deployment, validated through in vivo rodent models.

- Extreme Miniaturization: A battery-less, millimeter-scale (3.5×2.5×2mm³) design, significantly more compact than current commercial leadless pacemakers for minimally invasive delivery
- Sub-MHz Operation: Operates at 900kHz, ensuring stable power transfer while minimizing tissue heating and safety risks common in GHz-range systems
- Clinical Versatility: Two implant forms that support three distinct implantation methods: percutaneous injection, catheter-guided intravascular delivery, and flexible epicardial surface attachment



SmartCare is an AI platform developed by HKUST Smart Lab that supports AI-powered solutions for consultation and medical education. By pioneering advanced multimodal large language models for medicine, we enhance clinical efficiency and reshape the future of medical education

Clinical and Administrative Workflows Medical Education and Training Intelligent Public Services



SmartConsultation: Redefine Patient Journeys

SmartConsult functions as an AI medical co-pilot. Utilizing real-time multi-language, multi-speaker voice transcription, it automatically structures key information and drafts clinical notes with over 97% accuracy. We integrates SmartChat, SmartTriage, SmartConsult, and SmartDoc modules into EHR systems. By building a one-stop AI solution for healthcare, SmartConsult free medical staff from documentation to patient-centric care.

Pre-Consultation



- SmartChat Voice Input Medical Chatbot
- SmartTriage Customizable Triage System

Transcript Accuracy
96.5%

Consultation



- SmartConsult Intelligent Transcription System

Documentation Time Saves
50-70%

Post-Consultation



- SmartDoc Automated Documentation

Quality Improvement
Notable enhancement in clarity and comprehensiveness.

Virtual Patient: Next-Gen Medical Training

SmartCare Virtual Patient System is an innovative medical training platform covering diverse patient scenarios. Trainees can speak with facial expressive virtual patients that respond in < 2 seconds and support 10+ languages. After interaction, Professional assessment and feedback aligned with OSCE rubrics. Powered by our developed LLM, the system is designed to efficiently and reproducibly train the next generation of clinicians.



OSCE-Aligned

Professional feedback for reproducible training.

Expressive Virtual Patients

Diverse virtual patients supporting multiple specialties and clinical scenario

Saves Medical Resources

Reduces the need for real patient actors, lowering staffing costs.



<https://www.smartcaredev.xyz/>

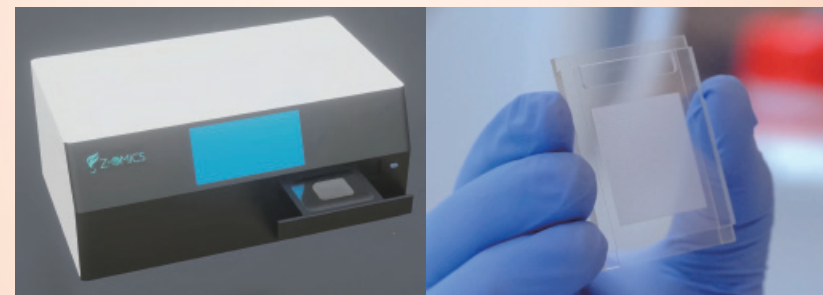


Z-Omics Limited

Single-cell multi-omic profiling on a proprietary high-throughput microfluidic platform to reveal cellular heterogeneity

Z-Omics empowers academic and pharmaceutical researchers with a proprietary platform to address cell heterogeneity. With single-cell technology revealing differences and interactions among cells, and microfluidics simplifying experimental processes and scaling up reactions, this high-resolution solution accelerates biomarker discovery, therapeutic target identification, and personalized medicine, enabling high-throughput high-content screening for scientific and pharmaceutical breakthroughs.

- HKUST-SINO 1M 2025: GF Innovation Award
- TSSSU awardee of 2025/26 & 2026/27
- Stratified products from labor-dependent to fully automated





AgileReach Robotics

High-Precision Shear Force Sensing for Robotic Dexterity

Our fingertip tactile sensors utilize a world-leading self-decoupling algorithm to deliver 0.01N precision and 0.1° directional resolution. Validated by leading robot companies, this is uniquely the only technology capable of simultaneous, accurate measurement of both force magnitude and direction, enabling advanced robotic dexterity and manipulation.

- 3D force decoupling sensors enabling accurate, simultaneous measurement of both force magnitude and direction, including precise shear forces
- Durable (IP68), customizable sensors offering exceptional 0.01N sensitivity and 0.1mm spatial resolution
- Product portfolio includes fingertip and palm shear force tactile sensors, and tactile data acquisition gloves



单点三维力传感器
(TRIFORCE SENSOR)



单点指腹三维感知传感器
(TRIFORCE SENSOR)



多点条形三维感知传感器
(MULTI-POINT BAR SENSOR)



多点异形三维感知传感器
(MULTI-POINT ALIEN SENSOR)



多点分布力传感器
(MULTIFORCE SENSOR)



全指尖触觉传感器
(FULL FINGERTIP TACTILE SENSOR)



多点掌心三维感知传感器
(MULTI-POINT PALM SENSOR)



指尖指腹一体式传感器
(INTEGRATED SENSOR)



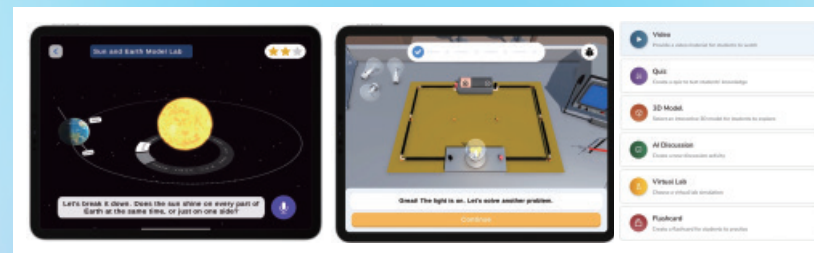
Brightly Education Limited

AI-native science education platform for schools

Brightly is an AI-native education technology platform where teachers can build AI-powered science lessons and activities on top of high-quality digital content, such as 3D labs and videos. Our 3D labs allow students to visualise difficult concepts and repeat experiments at their own pace. AI-powered discussion activities support personalised learning and immediate feedback. Our AI teaching assistant helps teachers evaluate student assignments and analyse classroom performance to inform the next lesson.

Our solution is homegrown from HKUST, where we originally developed AR+AI digital labs for aerospace engineering to better train our students for practical laboratories. The same team is now building Brightly for K-12 science education.

- Most AI-native education platforms have a chat-oriented user interface. This may be good for language subjects like English, Chinese, and even Math. But it lacks the 3D experimenting capability that is needed for science. Our platform combines the two to deliver the best digital resource for science
- Our AI teaching assistant evaluates student activities and responses, catching common misconceptions across the classroom and informing the teacher
- R&D on agentic-AI pipelines to automate and accelerate portions of 3D lab development



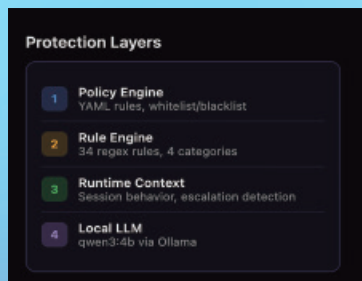


CipherInsight Limited

Auto-learns integrity “guardrails” from noisy data—synthesizing constraints that cut SQL/ML errors and boost pipeline reliability

This invention automatically identifies data integrity constraints from noisy datasets using a domain-specific language and sketch-based program synthesis. It treats constraint discovery as a program synthesis problem, inferring rules previously specified manually. The approach hardens SQL queries integrated with ML outputs by learning runtime guardrails. Validated on real-world datasets, it reduces query error rates by ~87%, enhancing data pipeline reliability.

- **Advanced Zero-Knowledge Proof (ZKP) Integration:** Unlike traditional analytics that expose raw data, the company utilizes cutting-edge ZKP technology. This ensures absolute privacy, allowing data to be analyzed and mathematically proven without ever leaving the owner's control.
- **Low-Barrier Usability for Data Science:** The platform eliminates the steep learning curve of cryptography. By offering familiar syntax, auto-optimization, and support for tensor operations, data science teams can deploy privacy-preserving analytics without needing specialized cryptographic expertise.
- **Cloud-Native Scalability:** Built specifically for cloud infrastructure, the architecture is designed to handle complex computations and scale seamlessly with growing data needs, mitigating the performance bottlenecks usually associated with privacy-enhancing technologies.



CONFO QUANTA

Confo Quanta

Maskless direct laser writing nanofabrication for customised chips, optics, and wearables

A direct laser writing nanofabrication system allows material deposition or removal without any mask, which is for customized chips, optics devices or wearable devices

- Maskless fabrication for electronics and optics
- Flexible design on a flexible substrate
- Variety of functional material



CraneR Technology Limited (CraneR) is a high tech start up company incubated from Hong Kong Center for Construction Robotics of the Hong Kong University of Science and Technology. CraneR focuses on the intelligent research and industrialization implementation of tower cranes, excavators, etc. and is committed to bringing advanced technologies such as robotics, automation, and AI into the construction industry, bringing unprecedented changes to the entire construction industry.

AI Tower Crane System

The AI Tower Crane System can be applied in various fields such as construction, ports, logistics, and industrial manufacturing. It features core functionalities such as remote control lifting, AI stable hook, AI-based safety monitoring, and AI-assisted route planning. By integrating embodied intelligence and artificial intelligence technologies, it constructs a comprehensive environmental perception and autonomous decision-making system, achieving a breakthrough upgrade in Tower Crane operations.



Creative AI Tech

End-to-end AI video generation automates filmmaking—cutting costs 80% and revisions 60–80%

This end-to-end AI video generation system, developed by HKUST, leverages world-leading generative AI and computer vision technologies to automate the entire film production workflow—from script parsing and storyboard generation to high-fidelity video rendering. Proprietary models ensure film-level visual consistency, cutting production costs by 80% and revision cycles by 60–80%. Backed by a pending US provisional patent, it serves film studios, content creators, and enterprises with efficient, professional-grade AI video production.

- **World-Class Academic & Technical Backing:** Founded on breakthrough research with over 40 top-tier conference publications (e.g., ICCV, CVPR) and iconic awards (e.g., ICCV Best Paper Runner-Up), our core technologies boast industry-leading citations and global GitHub traction (50,000+ stars), establishing unrivaled technical authority.
- **Enterprise-Level Production Fidelity:** Unlike generic AI video tools, our platform ensures cinematic-grade visual consistency and coherence. It automates complex production workflows while reducing production timelines and costs by 80%.
- **End-to-End Verticalized Service Ecosystem:** We provide fully integrated, turnkey script-to-final video services with dedicated enterprise support, custom model fine-tuning, and production pipeline integration for professional studios and creators.





SMART SHIN GUARDS

ELEVATE FOOTBALL PERFORMANCE WITH AI
Made by footballers for footballers



INJURY MITIGATION
Reduce downtime and costs

STRATEGIC OPTIMIZATION
Enhance team tactics effectively



PLAYER DEVELOPMENT
Accelerate growth and skills enhancement

Contact Us



Website



LinkedIn



Instagram

100 PARAMETERS

In our Machine Learning model for deep insights

16+

DATA ANALYSIS METRICS

For performance measurement

Real-time Stats tracking

X-code, Swift UI
For iOS development

COMING SOON

AI-powered insights for player improvement



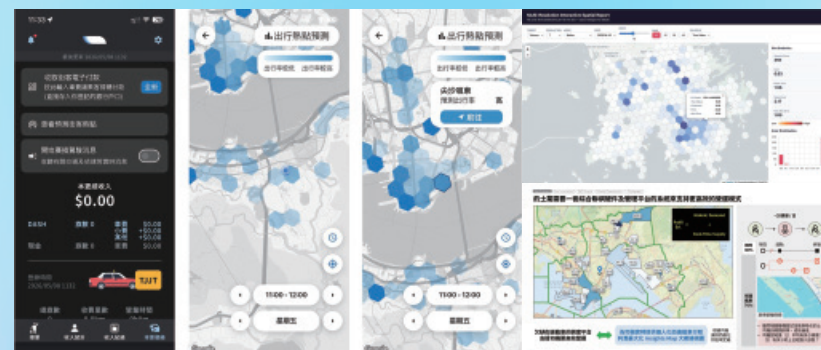
DASH

DASH

AI-powered insights map that delivers real-time, profit-maximizing trip recommendations to Hong Kong taxi drivers using big data

Our project creates an AI-powered Insights Map that predicts real-time profitability of roadside hailing zones across Hong Kong. Leveraging massive-scale data from over 2,000 taxis – combining historical trips, live demand, and real-time vehicle supply (including occupancy and fuel/battery status) – the system delivers highly accurate (90%+) profit-maximizing recommendations. This enables drivers to make smart relocation decisions, optimizing city-wide taxi deployment, reducing deadheading, and improving overall mobility efficiency.

- Massive Real-World Data Scale - Over 2,000 taxis' live heartbeat and trip data enables 99% confidence profitability predictions.
- Real-Time Supply-Demand Profitability Engine - Integrates historical demand with live taxi occupancy and fuel status for accurate zone profit forecasts.
- Actionable Cross-Region Intelligence - AI guides drivers to high-profit zones, optimizing city-wide taxi deployment and mobility efficiency.



DISCO

Traffic Analytics

LED BY PROF. HONG K. LO | HKUST

DISCO specializes in traffic modeling and optimization by providing smart and turn-key service product to tackle complex transportation problems.

Micro-simulation Traffic and Pedestrian simulation



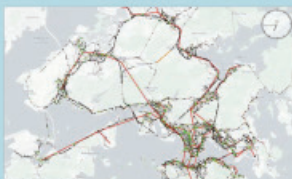
- ❖ Micro-simulation for traffic and pedestrian movements with high granularity

DISCO Dynamic Intersection Signal Control Optimization

- ❖ Capture spatial, temporal and stochastic traffic characteristics ;
- ❖ Optimize signals using AI/ML-based approach to achieve coordination in real-time



MATSim Agent-based Simulation



- ❖ Largest model of the kind in Hong Kong covering All Public Transport Modes
- ❖ Dynamical simulation of Individual's choice when travelling

EDAIGE

Centering AI on edge devices

EDAIGE LIMITED

Chasing higher FLOPS for faster neural networks

Faster edge AI camera, FasterNet edge AI model integration, and privacy-preserving edge AI human action recognition and pose estimation and matching.

Driven by Edge AI, human activities recognition, and large-scale model analysis, "i-Care" the AI-assisted Rehabilitation system guides rehabilitation: customized plans and movements, real-time guidance, motion following, proactive coaching, practice sessions, continuous monitoring, performance analysis, and recommendations for the next phase — A fully closed-loop application.



BOOTH
NO.

52

Electronics, AI and Smart Systems (EAS)

BOOTH
NO.

51

Electronics, AI and Smart Systems (EAS)



EmerGen Tech

AI-Native Game Worlds Infrastructure

Infrastructure for AI game worlds: real-time economy (supply-demand, pricing, competition, cash flow), emergent social relationship, policy system, plus diffusion-based art generation. Built to help developers create living strategy games.

- Economic engine – A grand strategy economy more realistic than Victoria 3.
- Vibe gaming – AI-assisted gameplay smooths the learning curve and simplifies the experience
- State-of-the-art diffusion-based art generation – Accelerates game art production

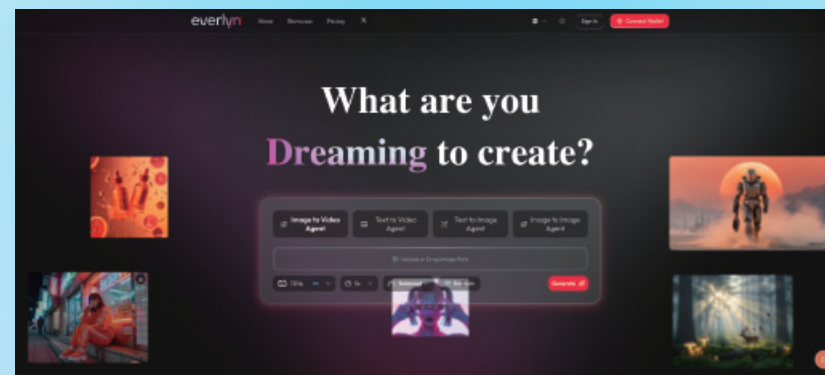


Everlyn Limited

Everlyn is a free, fast, unlimited AI video and image generation platform for everyone

Everlyn is an open-source autoregressive foundational video AI platform led by world-leading generative AI professors and researchers. It offers image-to-video, text-to-video, and image generation at revolutionary speed — 15 seconds vs. 5 minutes industry average — at 25x lower cost and 8x greater efficiency.

- Revolutionary speed: generates videos in 15 seconds, versus a 5-minute industry average.
- 25x cost reduction and 8x efficiency gain over competing AI video generation platforms.
- Open-source foundational video model with agential platform and decentralized Web3 ecosystem.





Guangzhou Qingtianzhi Technology Co., Ltd.

Autonomous facade cleaning robot with visual SLAM for safe, efficient high-rise maintenance

We use visual SLAM, multi-sensor fusion, and adaptive cleaning control to enable the robot to navigate complex building facades, locate precisely, and clean safely in high-altitude environments.

- Visual SLAM enables centimeter-level positioning on irregular building facades
- Multi-sensor fusion ensures reliable, safe operation in high-altitude conditions
- Adaptive cleaning control optimizes efficiency and reduces water consumption by 30%

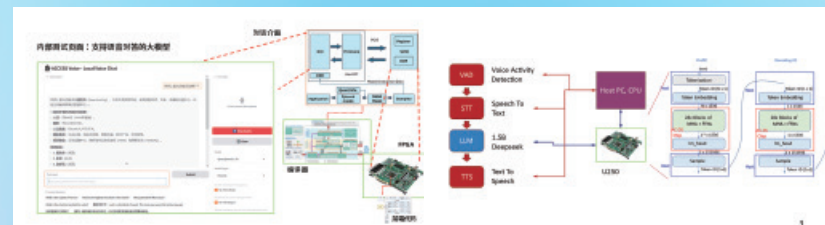


HarbourTek Limited

Hardware-software co-design with customized compression and in-memory computing delivers real-time, low-power LLM inference

Our chips and systems offer native support for a broad spectrum of CNNs, Transformers, and leading LLMs—including DeepSeek, Llama, and Qwen—delivering high-throughput, real-time performance. Built on a hardware-software co-design platform, the product leverages customized large-model compression and proprietary in-memory computing to achieve an industry-leading balance of high performance and low power consumption.

- Software-Hardware Co-Design Platform
Our product leverages a unified co-design platform to streamline design iterations and deliver customized optimization for edge-based large AI models, enabling highly configurable hardware architectures tailored to diverse edge inference scenarios.
- Model Compression & Bandwidth Expansion
Utilizing innovative compression algorithms, our technology achieves ultra-low-bit quantization to reduce model storage. Combined with high-efficiency bandwidth expansion, it delivers high-performance throughput even within constrained physical bandwidth.
- High-Efficiency Digital Compute-in-Memory (DCIM)
We employ advanced EDA-driven methodologies to optimize DCIM units for large AI models, resulting in world-leading high-efficiency DCIM that significantly enhances system performance-per-watt.

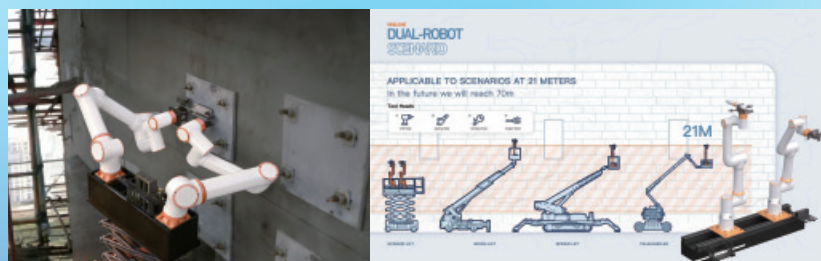


Kingjune Robotics Technology Co.,. Limited

Modular general-purpose aerial work robot

Our invention is an integrated high-altitude robotic system designed to improve safety, efficiency, and sustainability in hazardous work environments. It combines a stable aerial work platform with a modular dual-arm robotic system capable of performing tasks such as installation, drilling, cleaning, inspection, and maintenance. High-altitude work is traditionally associated with high accident rates, physical strain, and heavy reliance on skilled labor. This system addresses these challenges by transferring repetitive and high-risk tasks from humans to robots, allowing workers to supervise operations from a safer position. The dual-arm design enables coordinated, human-like manipulation, while interchangeable tools allow the system to adapt to different industries and job requirements. By reducing workplace accidents, improving work consistency, and supporting safer urban construction and maintenance, this invention contributes to improved public safety, higher industrial productivity, and more sustainable community development.

- Integrated aerial platform and dual-arm robot system enabling stable, precise, and safe high-altitude operations.
- Modular dual-arm design with interchangeable tools supports multiple tasks across construction, maintenance, and inspection scenarios.
- Human-robot collaboration approach transfers high-risk work to robots while keeping workers in safer supervisory roles.

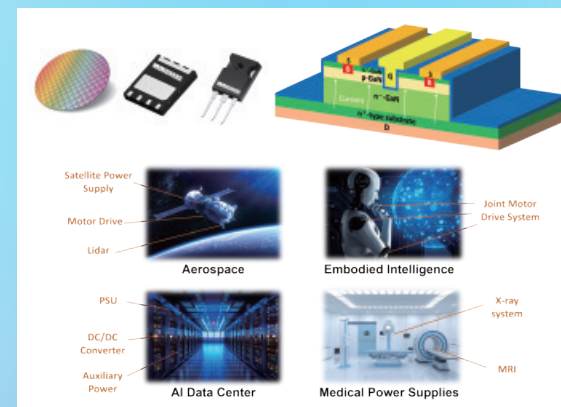


LoonGaN Technology Co Limited

Vertical GaN: next-generation technology for energy-efficient power systems in the AI era

LoonGaN's vertical trench MOSFETs deliver high efficiency, compact size, and high-frequency switching capability. Enhancement-mode operation enables direct drive with standard gate drivers, simplifying system integration. Its vertical GaN platform targets key growth markets including AI data centers, robotics, aerospace, and medical equipment. Vertical GaN provides the efficiency, frequency, and power density that next-generation high-voltage power systems demand.

- Vertical trench MOSFETs deliver high efficiency, compact size, and high-frequency switching capability.
- Enhancement-mode design enables direct drive with standard gate drivers for easy system integration.
- Proprietary GaN-on-SiC solution combines vertical GaN performance with SiC's low cost and high thermal conductivity.





Nexpackform Limited

NEXT GENERATION AI POWERED TALENT MARKETPLACE

Redefining how ambitious fast-moving consumer product brands access world-class talent — unlocking expertise in product design, development, and project management wherever and whenever it's needed.

Built for speed. Designed to scale.

- ▶ Reinventing how consumer brands access world-class product talent —globally, on demand.
- ▶ Built for a \$7B+ opportunity driven by structural transformation in consumer products.
- ▶ AI-powered matching that improves with every project and every hire.
- ▶ A scalable talent platform combining speed, flexibility, and defensible network effects.

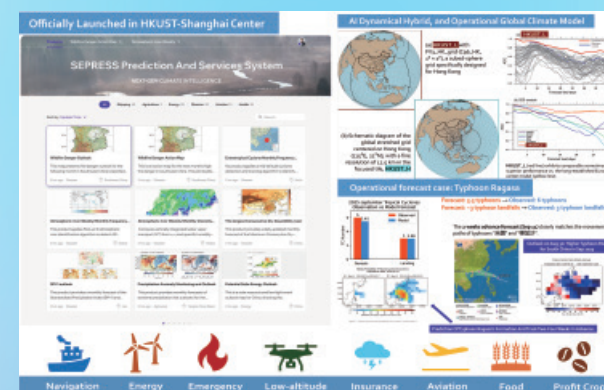


Otto Poon Center for Climate Resilience and Sustainability at HKUST

The SEPRESS system integrates Earth system modeling and AI to provide seamless, high-resolution weather and climate predictions for enhanced decision-making and resource management

The SEPRESS system is a fully coupled Earth system model integrating atmosphere, ocean, land, and sea ice processes for unified weather and climate predictions. It uses the FV3 dynamical core for regional refinement, a Resolved Cloud Parameterization scheme for better precipitation, and AI-enhanced hybrid architecture for improved 2-week to 2-month forecasts. This benefits sectors like agriculture, energy, and aviation by enabling earlier decision-making and improved resource management.

- The project is the first research-to-application outcome of the SEPRESS, endorsed by the UNESCO International Decade of Sciences for Sustainable Development.
- Since August 2025, SEPRESS has delivered monthly global forecasts, showcasing operational capability and enabling comprehensive real-world performance evaluation.
- SEPRESS combines climate models and AI in a unified framework, enhancing predictions across timescales to support sectoral decision-making and planning.





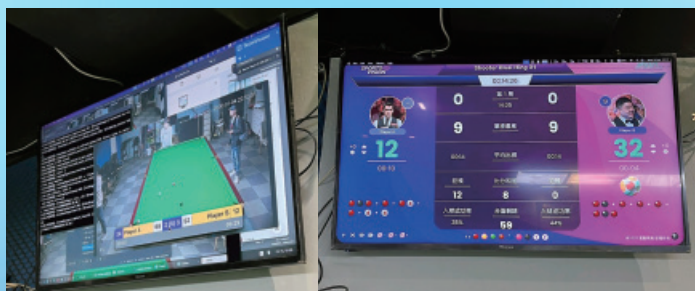
QT Sports Technology Limited

SnookiQ, where creator economy finally meets sports with advanced computer vision technology

Our core technology is a computer vision algorithm capable of snooker shot detection, ball tracking and automatic scoring requiring only minor fine-tuning to handle edge-case scenarios.

The system utilizes top-mounted cameras combined with edge AI devices, employing machine learning for real-time analysis. When players set up the table, the system automatically identifies ball positions, tracks ball movements, and calculates scores to achieve synchronization between the physical snooker and virtual app.

- Proprietary computer vision technology to detect ball colours and movement on a snooker table
- Proprietary algorithm to process snooker rules and conduct snooker score calculations
- Snooker ecosystem created by offering a creator economy for snooker players to monetise from fanbase

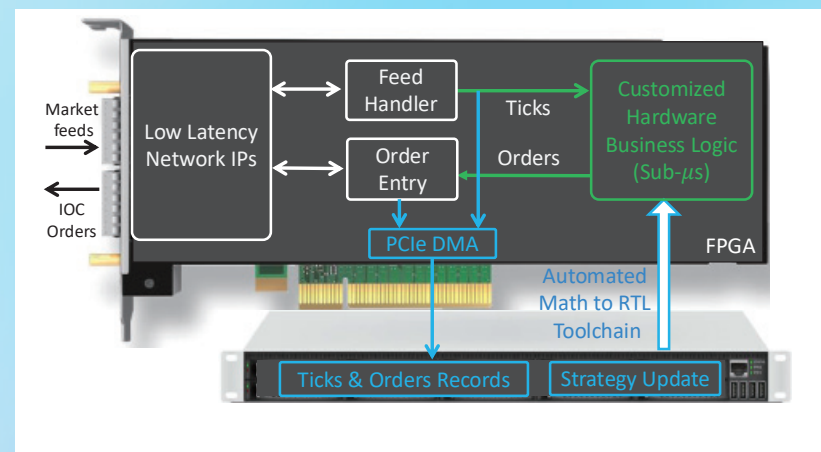


QuantaEdge

Turbocharge hedge funds with private, sub-microsecond hardware acceleration

We provide hardware-accelerated systems with world-leading computation latency that give hedge funds a turbo boost.

- Hardware acceleration for financial math models with industry-leading sub-microsecond computation latency
- Partner with financial institutes to provide tailored acceleration service
- An automatic design toolchain provides rapid and private hardware customization, adapting to daily market conditions



Raysolve 镭昱

Raysolve Technology Company Limited

Raysolve develops high-performance full-color Micro-LED micro-displays for consumer AI+AR glasses

Raysolve's proprietary quantum dot photolithography technology combines the high efficiency of QDs with the high resolution of photolithography, enabling fine pixel definition via standard semiconductor processes. It enables high-yield production of full-color Micro-LED micro-displays. This innovative color conversion approach achieves a critical balance between performance and volume, delivering an ultra-lightweight, high-performance micro-display solution for consumer AR glasses.

- **Miniaturization Advantage:** Monolithic full-color design reduces light engine volume to 0.18cc for AR glasses.
- **Process & Cost Advantage:** Wafer-level standard semiconductor process supports higher yield and lower cost.
- **Material Advantage:** GaN-based blue Micro-LED with QDPR enables stable red emission and simpler fabrication.



RFMY Limited

Miniaturized RF filters spanning 6–60 GHz for 6G and satellite communications

RF filters are a foundational component of all wireless communication systems, enabling signal purity, channel selectivity, and reliable high-speed connectivity. Our platform integrates three key differentiators: (1) advanced multilayer thin-film architectures on high-permittivity substrates, incorporating lithium niobate and next-generation heterogeneous material stacks for ultra-compact size, high stability, robust power handling, and scalable manufacturing; (2) hybrid resonant topologies with controllable transmission zeros for superior selectivity and strong out-of-band suppression; and (3) EM-thermal-mechanical AI co-design models that accelerate design iteration, reduce cost, and improve tape-out yield. These innovations have already delivered record-level results across 6–60 GHz, including ~1.0 dB insertion loss, wide fractional bandwidth options, more than 30 dB rejection, footprints 6 mm², weight 5 mg, and profile thicknesses 0.4 mm. With strong technical differentiation and a clear path to commercialization, this platform is well-positioned for 6G and satellite communication markets that require ultra-light, high-performance, and large-scale deployment.

- Advanced materials (lithium niobate) and next-generation multilayer thin-film heterogeneous stacks, engineered for stability, power handling, and manufacturability
- Ultra-light, ultra-compact, high-performance RF filter platform across 6–60 GHz for massive deployment
- Multiphysics AI models that accelerate iteration, reduce cost, and improve tape-out yield



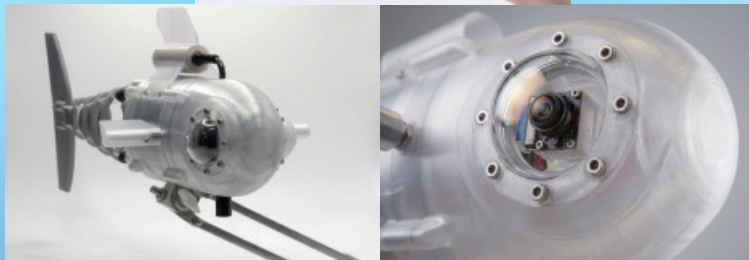
Robust

Robust

A robotic fish for non-disturbing underwater monitoring

An underwater propulsion and steering mechanism for a robotic fish, combined with software for onboard underwater object detection, tracking, and segmentation.

- High-speed, efficient, and robust underwater propulsion and steering mechanism for a robotic fish
- Software for onboard underwater object detection, tracking, and segmentation using 360-camera footage
- Robotic fish performance can be optimized thanks to its customizable and simulatable design

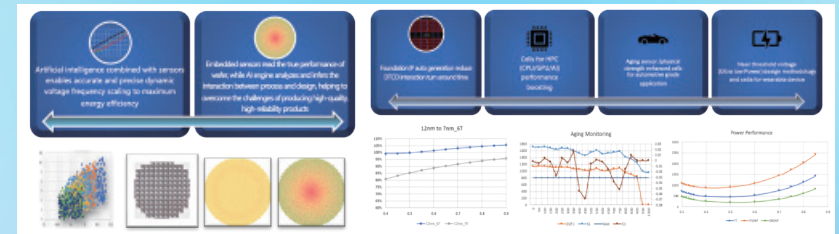


SiliconRight

AI-DTCO AI-empowered Design and Technology Co-Optimization

IC manufacturing has rapidly evolved, with feature sizes shrinking from micrometers to nanometers and MOS structures advancing from planar to FINFET and GAA. Design rules and transistor counts have grown dramatically. AI-based DTCO analyzes integrated circuit and technology characteristics then auto-generate optimal IP for performance, area, and power. AI-driven sensor data analysis also improves variation monitoring, quality, and process control.

- Total solution from IC design to IC manufacturing yield and quality improvement
- Rich engineering experience with the capabilities of AI and algorithm to achieve speciality IP solutions. Such as IP for HPC (High Performance Computing), Ultra Low Power (Near threshold voltage), High reliability (Automotive) and general purpose foundry IP.
- Embedded sensors with AI enhanced analysis platform for IC quality, yield and design optimization.



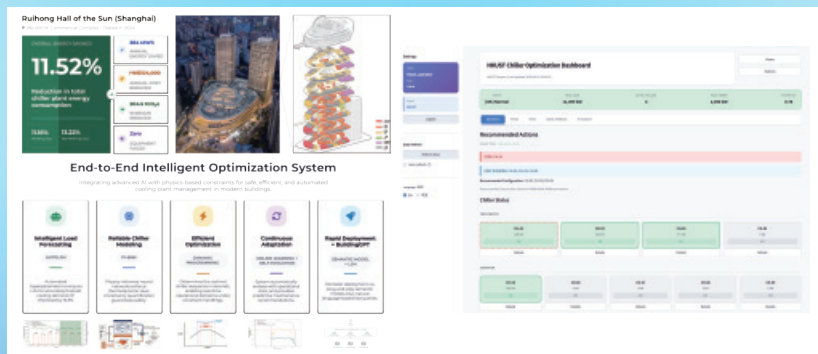


Smart Cool Tech Limited

SmartCool Optimizer: AI-Powered Cooling Plant Management for Energy & Cost Reduction

SmartCool Optimizer combines patented physics-informed AI, first-principles chiller modeling, and dynamic optimization to provide optimal sequencing recommendations and predictive maintenance for large cooling plants. Built on semantic-model-based deployment, it integrates rapidly with existing BMS/SCADA systems without hardware upgrades, improving energy efficiency, operational reliability, and scalability.

- Software-only deployment with no hardware upgrade required, minimizing upfront investment and lowering adoption barriers for building owners
- Physics-informed AI ensures safe, reliable optimization by embedding thermodynamic constraints and avoiding black-box control risks
- Semantic-model-based integration enables deployment within 3-5 days across diverse BMS/SCADA systems, greatly improving scalability for large building portfolios



SmartChip Optoelectronic Semiconductor (SCOS)

FLCoS revolutionizing the Microdisplays and Optical Network

Generative AI is revolutionizing infrastructure demands. We're present next-generation LCoS technology delivers the world's fastest Wavelength Selective Switching across S+C+L bands, while our innovative FLC-based Optical Circuit Switching achieves unprecedented microsecond-level performance for AI data centers. These breakthrough technologies overcome scaling limitations, dramatically reducing power consumption while enabling ultra-fast, high efficient operations essential for next-gen connectivity and AI expansion.

- Fastest optical phase modulator for WSS & our Gen 1 product is endorsed by an industry leader in Telecom.
- Polarization-insensitive LCoS boosting optical efficiency.
- 1000 times faster ferroelectric liquid crystal-based optical switches for hyperscalers.
- World's first 0.8 micron pixel pitch FLCCoS - Ultra high PPI microdisplay for AR/VR/HUD.



StashTag Education

The Intelligent Bridge in the Classroom

Students

Learn Stress-free
on a Daily Basis

Teachers

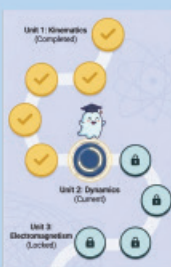
Monitor Progress
Easily and Generate
Resourceful Content



Enhance
understanding
via StashTag's
Chatbot



Personalised
Questions and
Notes



Transforms
Confusions
into
Learning
Roadmap



Confusion Button

Zoned-out Button

Jot Notes Button



Students' Performance Analysis



Create Standard Quizzes Based
on Collected Content and Data



Generate Recap Slides



Monitor In-Class Learning
Progress on a regular basis



Stellurus

Stellurus Technology Limited

Prototyping and in-orbit testing of In-Orbit Data Analytics System for Earth Intelligence (ODYSEI)

This project develops and prototypes ODYSEI, the world's first in-orbit data analytics system for Earth intelligence, addressing key Earth-observation bottlenecks such as limited downlink bandwidth and long delays from sensing to insight. The mission launches a pair of satellites flying in coordinated formation to demonstrate inter-satellite laser communications and high-rate data transmission, enabling efficient data sharing and rapid delivery. Onboard AI validates real-time retrieval of atmospheric temperature and water-vapor profiles from HKUST's self-developed LYRAS hyperspectral sensor, combined with optical imagery. By optimizing in-orbit GPU resources and dynamic computing management under varying cloud scenes, ODYSEI targets >30x data compression and end-to-end latency under 10 minutes from observation to user. Comprehensive in-orbit testing, validation, and continuous improvement of the processing chain will prove the feasibility of generating actionable Earth intelligence directly in space.

- World's first earth observation satellite system to validate AI-based retrieval and analytics directly in orbit, converting raw hyperspectral data into Level-2/3 intelligence before downlink.
- Advanced AI algorithms designed for HKUST's LYRAS hyperspectral sensor to retrieve high-precision atmospheric temperature and water-vapor profiles.
- Unique dynamic GPU and power management tuned to cloud scenes and mission conditions, enabling robust low-power edge computing on small satellites.



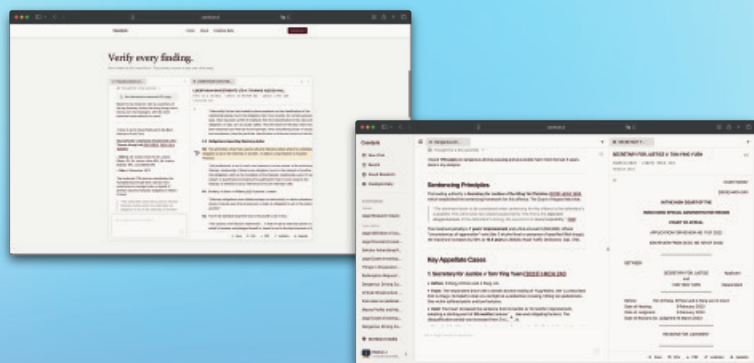


Terracotta

Building the world's largest living legal database

We are building the world's largest living database of Hong Kong law — a dynamically generated annotated textbook. Starting with 157,000+ judgments and ordinances, we extract and structure case citations, legislation references, and metadata from public records. An agentic AI assistant navigates this enriched knowledge graph to surface precedents and generate daily annotated updates. The result is a living, navigable legal corpus that evolves with every new court decision.

- Living legal database: dynamically generated annotated corpus that evolves automatically with every new judgment and ordinance.
- Agentic AI assistant with specialised tools traverses our structured legal database to answer complex legal queries.
- Unified Hong Kong and UK case law, reflecting how HK courts borrow precedents across common law jurisdictions.



Xeno Dynamics

Regait offers fine motor control training by enabling patients with lower limb walking impairments to practice locomotion in real-world settings

Regait is a medical exoskeleton innovated by Xeno Dynamics. It delivers fall-free overground walk training with digitized assessment. The genuine and fluid sensation of walking provides a distinctive treatment, boosting patients' confidence and supporting improved recovery. The digitized feedback offers a direct, precise and personalized insights of the rehabilitation progress for both patients and therapists, building trust and promoting collaboration.

- Fall-free real-world "Cognitive + Walking" synchronized dual-task training
- Comprehensive genuine walking experience that stimulates the feet, ankles, vestibular, and central nervous systems empowering fine motor control training
- Joint-specific, real-time quantitative feedback encourages patients' volitional control



zonic
Zonic Tech Limited

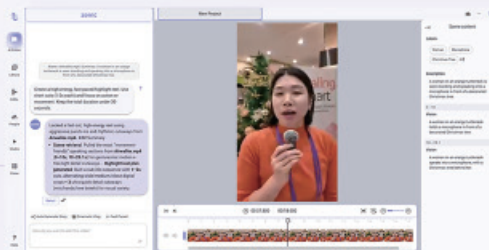
The AI that turns raw footage into a professional rough cut, automatically.



Zonic is a vertical agentic AI system built for video post-production. It sits upstream of professional NLEs (Premiere Pro, DaVinci Resolve), handling intelligent footage retrieval, selection, and rough-cut assembly — replacing the most labor-intensive stage of production. Powered by agentic strategy learning, Zonic continuously extracts editorial know-how from professional users without parameter retraining, compounding domain intelligence across every project and trained on a proprietary 230TB professional footage dataset.

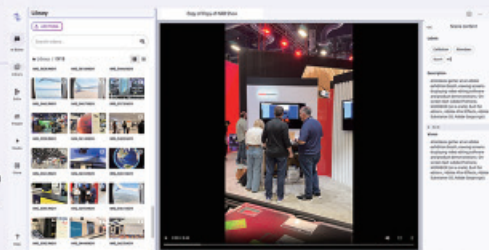
Learns From Professional Editors

AI adapts editorial patterns automatically, no parameter retraining required.



Built on 230TB of
Production Footage

Proprietary dataset provides domain depth no general-purpose AI model can replicate.



Works Inside Existing Editing Pipelines

Seamless upstream integration with
Premiere Pro and DaVinci Resolve,
eliminating manual labor.



Agentic AI for Video Production



Trained on
230TB Professional
Footage Dataset



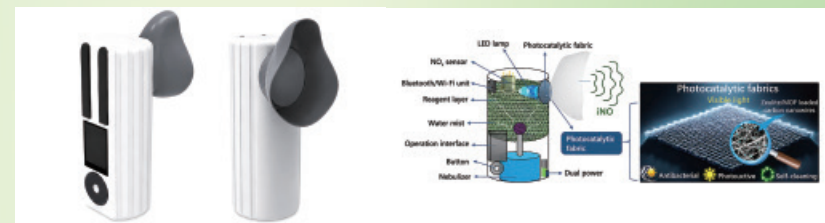
Built for High-Impact,
Large-Scale Video
Workflows

A Portable NO generator for iNO Therapy

A portable device generates controllable inhalable NO for 30 h using water-mist-activated powder for under €0.1

Handheld, tankless INO platform generating therapeutic NO on demand through a moisture-triggered reaction between solid precursor materials and water mist. Integrated NO/NO₂ sensing and flow regulation enable controlled output with low NO₂ formation. It is designed to replace bulky gas cylinders with a portable, low-cost device for hospital, emergency and home-care use.

- Portable tankless design eliminates high-pressure cylinders, enabling lightweight, low-cost iNO access beyond conventional hospital infrastructure
- Moisture-activated cartridges generate NO on demand with adjustable dosing, long delivery duration and minimal NO₂ by-product
- Integrated sensing, AI-assisted control and photocatalytic self-cleaning materials improve safety monitoring, hygiene and user reliability



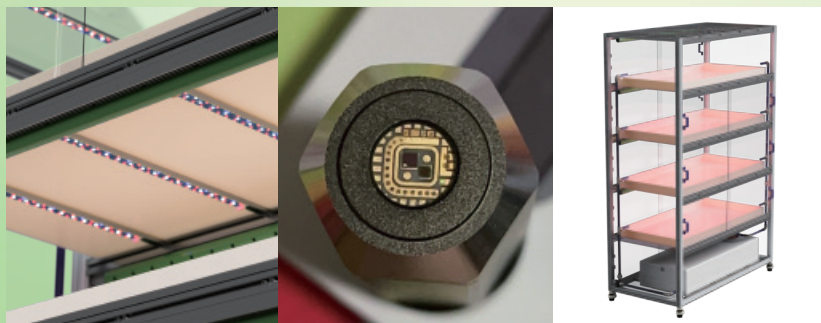


AgriFutureHK

AgriFutureHK aims to lead the future of urban agriculture, by building a indoor farming rack with modular and scalable solutions

AgriFutureHK is a startup revolutionizing indoor farming with modular, scalable solutions designed for visionary growers, academic researchers, and public engagement. Their innovative systems, featuring custom LED lighting, water-based HVAC, and precision nutrient detection, ensure consistent, high-quality crop growth. By offering a one-stop platform for deployment and operation, they tackle the challenges of high costs and complex setups.

- Custom LED lighting optimizes energy use and tailors light spectra to boost crop yields in indoor farming
- Water-based HVAC provides sustainable, cost-effective temperature and airflow management for consistent indoor farming conditions
- Spectral sensors and nanoporous silver sheet allow precised nutrient detection, enabling high-quality crop production

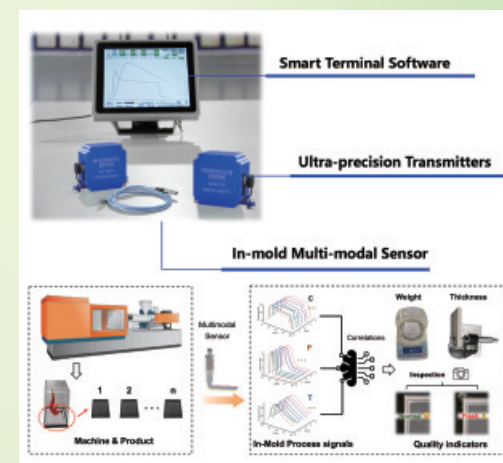


Argusmo Technolgoey Limited

The eye of mold: Multi-modal sensing empowering real-time quality control and process optimization for autonomous, zero-defect molding

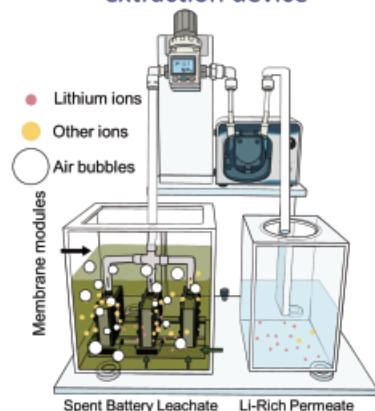
Smart sensor embedded in mold uniquely measures capacitance, temperature, and pressure simultaneously, providing real-time visibility of polymer flow inside the closed mold. Combined with AI: 100% automated online inspection, defect root-cause analysis, self-optimizing control. It reduces operator dependency, slashes defects – a decisive step toward zero-defect autonomous molding.

- World's first in-mold capacitive sensing for automated, comprehensive online anomaly detection in injection-molded parts
- Multi-modal sensing and factor decoupling to isolate variables affecting quality, enabling precise root-cause identification of defects
- Closed-loop, autonomous process optimization driven by real-time digital quality feedback

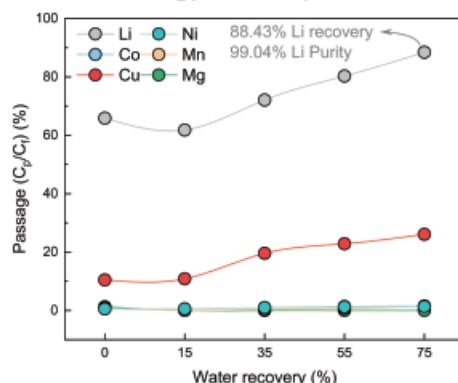


Compact and mobile device for lithium recycling from lithium battery wastes

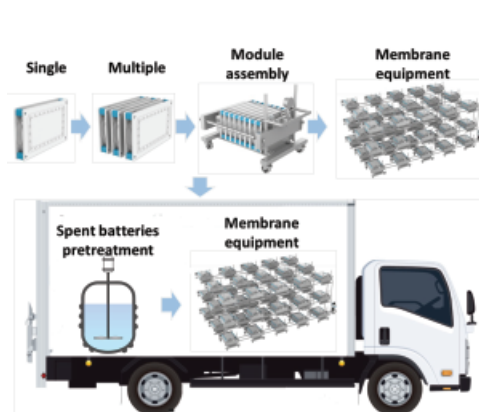
Compact and selective Li⁺ extraction device



Performance: > 99% Li⁺ purity & ~90% Li⁺ recovery with ultra-low energy consumptions



Scale-up and deployment roadmap



Key achievements

- 2 patents filed/ in preparation
- > 2 industry partners engaged
- High product Li⁺ purity (>98%)
- High lithium recovery (~90%)
- >100x lithium enrichment
- Fully acid recovery for chemical costs reduction
- >50% energy consumption reduction compared to pyro/hydrometallurgy

EC Innovation Limited

EC Innovation is an urban greening service provider with new-era innovation to deliver high quality and low-cost services

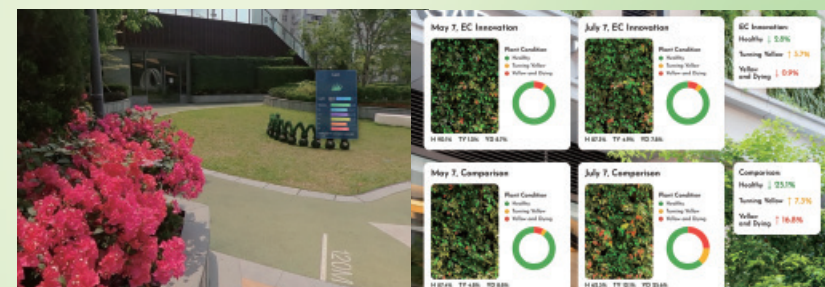
EC Flow System: The Water Upcycling Irrigation System monitors water quality in real-time, automatically upgrades water into customized compositions with precision-controlled irrigation volume, effectively avoids dying and deficient plants.

EC Inno Proprietary AI Plant Health Analytics System: Monitors the real-time health status of turf and plants.

EC Inno AR: 3D modelling & Augmented Reality Experience of Urban Greenery.

EC Inno Fire Control System: Leverage Thermal Imaging and AI to detect and mitigate fire risks, connecting the signal with the Smart Irrigation System to extinguish fire in the event of any fire.

- EC Inno has a strong inter-disciplinary capabilities, covering AI software and IoT hardware, MEP engineering, Chemistry, Horticulture, etc
- EC Inno aligns multiple disciplines into products and services meeting industry needs
- EC Inno has various property developers under its client portfolio, integrates close-loop feedback into its database and solution development





ElequaNova Limited

Low-energy, chemical-free wastewater solutions (ECO®, SOSA®, LEEO®, SANI) that boost performance, reduce waste and odor, recover resources, and lower operational costs for treatment plants

Our technologies offer practical solutions to major wastewater and sludge treatment challenges. ECO® treats landfill leachate and other high-strength wastewater with low energy use, improving biodegradability and removing color without chemical dosing. SOSA® is a compact sidestream system that cuts excess sludge by 30–60% with little space, low investment, and no disruption to existing operation. LEEO® provides fast, chemical-free control of high-concentration H₂S, while also improving sludge dewaterability and reducing odor problems. The SANI process further expands the value of wastewater treatment by enabling carbon capture and recovering useful bioactive polysaccharides. Together, these technologies help plants improve treatment performance, lower operating burden, and move toward more sustainable and resource-efficient operation.

- SANI\SOSA: Carbon capture, bioactive polysaccharides recovery, sludge reduction, cost saving;
- ECO: refractory pollutant removal, low energy consumption, no chemical dosing;
- LEEO: H₂S gas reduction, Sludge dewaterability improvement, odour control, low energy consumption, no chemical dosing;

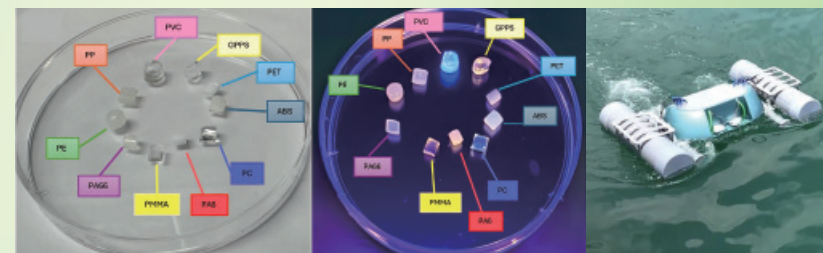


ENVIRIDIS TECHNOLOGY

Smart Fish is an autonomous robotic fish that enables real-time detection and identification of microplastics, providing a faster, smarter, and more cost-effective solution for cleaner oceans

Smart Fish is an autonomous robotic fish for microplastic sampling, detection, and treatment in coastal surface waters. It integrates GPS-based navigation, remote sensing, autonomous sampling, fluorescent staining, automated image analysis, contaminant detection, data logging. Compared with conventional manual sampling and laboratory analysis, it provides a mobile, automated, traceable, and timely solution for identifying and responding to marine microplastic pollution.

- Autonomous robotic fish enables mobile microplastic sampling across coastal surface waters without relying on fixed sampling stations
- Integrated sampling, fluorescent staining, automated image analysis, and data logging support rapid, traceable microplastic identification
- Combines GPS navigation, remote sensing, contaminant detection, and treatment functions for location-specific pollution assessment and response



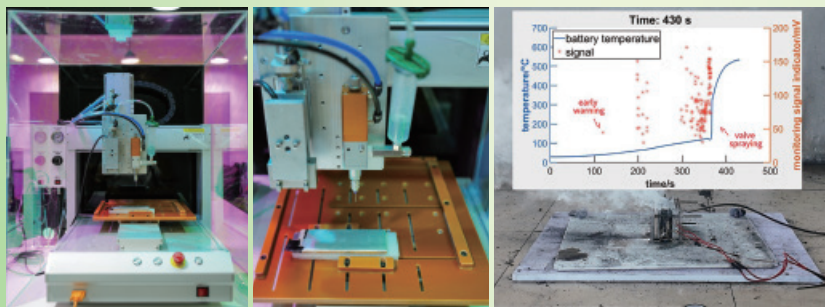


Eversound Technology

Redefining battery health diagnostics across the entire lifecycle with cutting-edge ultrasonic imaging and sensing technology

We developed ultrasound-based products for automatic inspection and monitoring of electrochemical energy storage systems (e.g., Li-ion batteries). One of our featured products can provide high-resolution images of the interior structure of batteries by ultrasound. It includes advanced ultrasonic sensing hardware and imaging reconstruction algorithms. Any defects inside the battery can be reliably detected, localized and characterised. Robust software is included to provide reports of the battery. The product can be used to examine the health status of batteries, quantify the battery quality and lifetime, ensuring its safe operation.

- High-resolution three-dimensional ultrasonic imaging reveals interior early-stage anomalies of commercial Li-ion batteries
- Physics-based and AI-assisted automatic battery problem diagnosis and health lifetime prediction
- Ultra-early cost-effective sensing safety warnings identify battery risks across cell, module, and pack levels



Guangzhou New Materials Intelligence Technology Co., Ltd. (NMI)

Building a key functional material platform for global advanced manufacturing based on precise microcapsule controlled-release technology

NMI's core technology is the AI-driven Micro-Nano Interface Precision Construction platform. It integrates MST+ (molecular design), FFCTP™ (intelligent manufacturing), and AI4MC (AI acceleration). By encapsulating active materials in 2-300μm shells, it ensures stability and enables precise, on-demand controlled release. This resolves critical stability, timing, and compatibility bottlenecks in functional materials for high-reliability industrial applications.

- Industry-first AI-driven micro-nano interface precision technology, enabling high controllability and industrial scale-up of microcapsules
- Achieved mass production of high-end pre-coated fastening materials, successfully breaking long-term European and American technological monopolies
- Features the world's largest microcapsule data knowledge base and a 100-ton intelligent manufacturing line for rapid commercial delivery



Human-Sensed Thermal Comfort Control

The smart-sensing, wearable metabolic-rate-driven system enables personalized thermal comfort prediction and dynamic environmental control for human-centric, energy-efficient, and low-carbon systems

This invention enables portable metabolic rate detection based on easy-to-measure physiological factors and applies it to personalized thermal comfort prediction. By replacing bulky laboratory equipment with a compact wearable sensing approach, the system provides individual metabolic information for human-centric environmental control. It supports more accurate thermal comfort assessment, adaptive thermal regulation, and energy-saving operation in smart buildings, vehicles, healthcare, and low-altitude economy scenarios, including passenger aircraft cabin comfort control.

- Wearable metabolic-rate sensing enables real-time, non-invasive, personalized thermal comfort assessment.
- Dynamic control links human physiological feedback with smart environmental adjustment for energy savings.
- Compact, low-cost prototype achieves lab-grade precision and supports scalable smart-living applications.



Hyele Limited

Hyele transforms water infrastructure into intelligent, resilient assets

Hyele Limited is dedicated to accelerating smart city development through innovative technologies that enhance water and energy efficiency while improving the sustainability, resilience, and adaptability of urban water infrastructure. Recognising that water supply systems are critical to city operations, where faults such as leaks and bursts can cause major disruptions, Hyele addresses the persistent challenge of high non-revenue water (NRW) levels worldwide. Its advanced solutions integrate physics-based models with machine learning techniques to enable accurate detection, localisation, and characterisation of defects, delivering comprehensive condition assessment across all stages of urban water pipeline systems using specialised software and state-of-the-art hardware.

- Hyele technology is reliable while being non-intrusive and non-disruptive, and able to diagnose kilometers of pipelines in a matter of seconds.
- Hyele provides single-time condition assessments (2–4 weeks) including high-resolution data + detailed condition report + baseline establishment with equipment provided.
- Hyele provides Term System Monitoring (minimum 12 months) including continuous monitoring, fault alerts/defect identification, and regular performance reporting by hardware leasing/buying and software licensing.





Leyden Power International Limited

Leyden Power's goal is to integrate Battery Energy Storage System (BESS) solutions into user-side energy strategies, combining hardware, software, and services

The core technologies of Navy series BESS products include: (1) co-charging and discharging to improve power supply efficiency and reliability; (2) Power amplification, effectively cope with unstable power supply and solve the problem of insufficient mains power. (3) Power aggregation, which can realize the superposition of grid power + diesel + energy storage. (4) Emergency power backup, the system can realize fast on-grid switching and provide uninterrupted power supply; (5) Fault isolation, single point fault will not cause power outage; (6) Overvoltage and undervoltage protection; (7) High and low voltage cross-through; (8) Voltage reactive power control and voltage active control; (9) 4-level fire safety protection system: battery cell-level real-time monitoring + PACK-level immersion cooling + cabin full immersion fire extinguishing system & fire water sprinkler system + automatic exhaust and ventilation device.

- Established leadership in the DG replacement market to directly capture the market tailwind
- Deep understanding and experiences in all-in-one BESS solution for all industrial scenarios microgrid applications
- Strategic initiatives with transferrable capabilities to penetrate major BESS value chains (EPC project experience of Utility-Scale BESS, Virtual Power Plant (VPP), Agile BESS & DG Alternative, et al.)

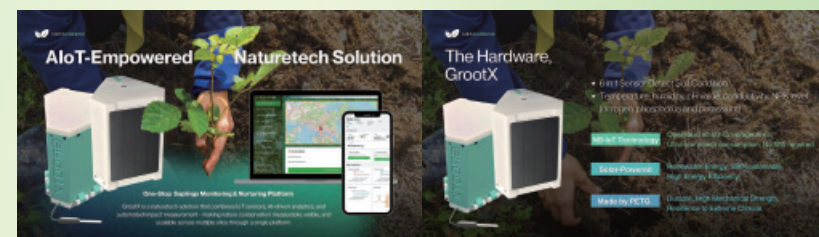


MetaGreenX NatureTech Limited

AIoT tree saplings remote nurturing & monitoring naturetech solution

Our solution, GrootX, is an innovative smart system designed to enhance the survival rate of saplings in remote green areas. GrootX integrates self-developed sensors, automated nutrient delivery systems, and real-time data analytics to monitor key environmental factors. Our AI-driven predictive model also ensures saplings receive precise, timely care tailored to their environment, improving growth outcomes and supporting biodiversity.

- NB-IoT: Low-power, wide-area connectivity for reliable environmental monitoring in remote green spaces
- Agentic AI: Intelligent, adaptive AI that detects issues early and supports smarter conservation decisions
- We Educate: Beyond technology, we build a community with environmental literacy, innovation skills, and entrepreneurship through hands-on learning



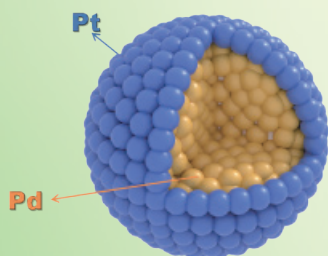


Padergy

Next-Generation Hydrogen Fuel Cell Catalyst

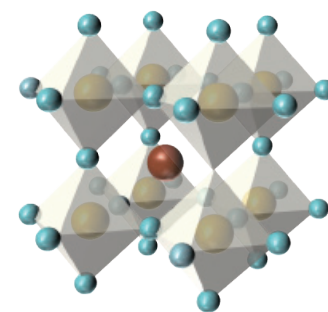
Palladium-Platinum core-shell catalysts (Pd@Pt) are positioned as next-generation cathode solutions due to their synergistic advantages of high activity and ultra-low Pt loading. By leveraging a Pd core and ultrathin Pt shell (1–3 atomic layers), Pd@Pt catalysts maintain the conductivity of conventional Pt/C while achieving a mass activity of 0.9 A/mgPt (3 times higher than commercial Pt/C), a 55% reduction in Pt loading to 0.25 g/kW in membrane electrode assemblies (MEAs), and activity decay 32% after 30,000 accelerated stress test cycles, with MEA validation demonstrating 2 times longer stability versus commercial Pt/C. The team has scaled up the production of this product, built a 100-gram-scale pilot production line for palladium-platinum core-shell catalysts, and initially laid the foundation for industrialization.

- Scalable production of high-performance Pd@Pt core-shell catalysts.
- Customized catalyst solutions for diverse applications, including ink formulation, MEA process optimization, and failure analysis for stack, vehicle, drone, and stationary power clients, creating deep technical partnerships and a "product + service" synergy.
- Technology patent licensing and collaborative circular economy (i.e. precious metal recycling from spent MEAs) with supply chain cooperators.



PEROVSKITE SOLAR MODULE

Perovskite-based solar modules represent a promising advancement in photovoltaic technology. To transition from lab-scale cells to practical applications, recent efforts of Prof. ZHOU's group have focused on scaling up these devices into stable, large-area modules suitable for real-world deployment.

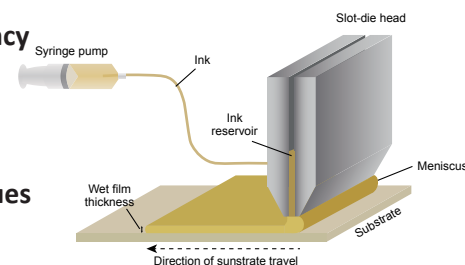


High Power Conversion Efficiency

Low Manufacturing Cost

Advanced Fabrication Techniques

Potential for Building Integration



Prof. ZHOU Yuanyuan (Alvin)



yyzhou@ust.hk



www.alvinzhou.com



香港科技大學
THE HONG KONG
UNIVERSITY OF SCIENCE
AND TECHNOLOGY



PointFit Technology

PointFit's EDB enables continuous, non-invasive sweat biomarker sensing—direct biochemistry, real-time insights

PointFit introduces Evaporative Dermal Biosensing (EDB), transitioning from invasive blood testing to continuous, non-invasive sweat monitoring. Its patented 150nm Ultra-High Molecular Weight Polyethylene (UHMWPE) nanomembrane enables real-time electrochemical sensing of biomarkers including lactate, cortisol, and glucose directly from the skin. Unlike current wearables using proxies, PointFit delivers direct biochemical insights via AI, validated against FDA-approved devices.

- Patented 150nm UHMWPE Nanomembrane: Enables continuous, non-invasive electrochemical sensing of biomarkers directly from the skin with superior molecular selectivity and 10-hour durability, outperforming bulky microfluidic patches.
- Transition from Proxies to Direct Biochemistry: While industry giants (Apple, Garmin) use non-specific biometrics like heart rate and steps, PointFit provides direct biochemical insights into lactate, cortisol, and glucose with clinically validated accuracy.
- AI-Driven Proprietary Health Intelligence: Trained on a unique proprietary sweat database with diverse demographics, PointFit creates personalized baselines for hyper-accurate fatigue and recovery tracking, with refill sensors targeted at US\$5.



PraiseTech Limited

PraiseTech Limited provides smart air quality monitoring and personalized health assessments. Leveraging HKUST scientific expertise, we deliver precise data and predictive insights to empower healthier living.

Our Core Offerings:

**Street-level
Air Quality Model**



**Sophisticated
IAQ Model**



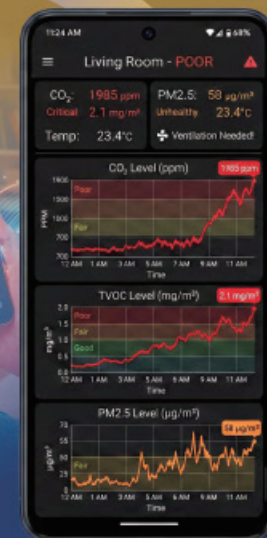
**Personalized Exposure
Assessment**



**Real-time Alerts and
Health Advice**



Integrating sophisticated air quality models with individual health data, we provide comprehensive indoor-outdoor pollution tracking and personal exposure assessments - Turning complex environmental data into personalized health tips for users anywhere, anytime.



Conceptual smart phone userinterface of our Praise-Tech application



Quano Technologies Limited

Quano Technologies develops, manufactures, and sells next-generation precision positioning devices for the most demanding environments

Quano Technologies Ltd. accelerates scientific breakthroughs in service of human advancement, through innovative, reliable positioning solutions for scientific and industry applications.

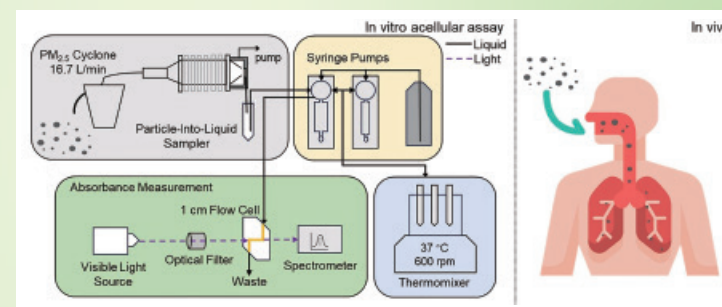
- Smallest precision positioning device on the market
- Mechanical stability due to redesigned structure
- Using high quality materials and smart interfaces

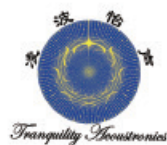


Real-Time Monitoring of PM2.5 Toxicity with Automated Oxidative Potential Analyzer

Our system is designed to monitor the toxicity of fine particles in the air (PM2.5). These particles can harm human health by creating oxidative stress in the body. Using the acellular assay, our instrument automatically measures how strongly airborne particles consume antioxidants or generate reactive oxygen species (ROS). In simple terms, it shows how dangerous the particles are to breathe, by tracking their oxidative potential. Unlike traditional lab methods, our system is automated, affordable, and suitable for continuous field monitoring, making it practical for real-time health-oriented air quality monitoring and management.

- Unique & Practical Design
 - Compact, portable system optimized for field deployment and mobile monitoring
 - Integrated sampling and assay workflow for real-time results
 - Cost-effective components ensure accessibility and scalability
- Accurate & Sensitive Monitoring
 - Detects subtle changes in oxidative potential (LOD $\approx 0.03 \mu\text{M}/\text{min}$)
 - High reproducibility (CV = 2–8%) ensures reliable long-term data
- Low-Maintenance Automation
 - Automatic hourly operation with only weekly maintenance
 - Durable light source with 10,000-hour lifespan
 - Robust design prevents clogging, ensuring reliable outdoor monitoring





Tranquility Acoustronics

Whisper highspeed Hair Dryer

A hair dryer that provides the same drying performance as top brands like Dyson, but emits only 1/3 of the noise from the Dyson HD8.

- Same drying speed but at a fraction of the noise energy of any competitor in the world.

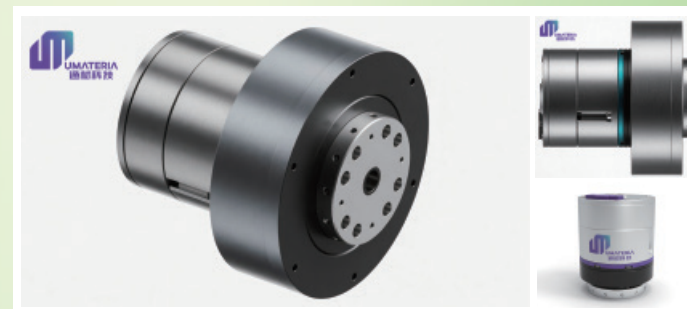


Umateria Technology Limited

A high-performance robotic flexible joint driven by self-developed Giant Electrorheological Fluid (GERF) intelligent materials, supporting real-time stiffness tuning and high-precision compliant actuation

This technology centers on a novel robotic flexible joint based on proprietary Giant Electrorheological Fluid (GERF). Under electric field control, it realizes rapid, stepless stiffness regulation and stable flexible output, overcoming the poor adaptability of traditional rigid joints and the complex structure of motor-based flexible solutions. With fast response, compact size and high safety, it is ideally suited for collaborative robots, medical robots and precision manipulation scenarios. The core intelligent material technology originates from HKUST-related research achievements, promoting the industrial translation of advanced smart material-driven robotic components.

- Possesses independent intellectual property rights in the core GERF intelligent material system, forming an irreplaceable technical barrier over similar rigid/ flexible joint products
- Achieves real-time continuous stiffness adjustment and high-precision compliant motion, greatly improving robot safety and environmental adaptability in human-machine interaction
- Features compact, lightweight structure and low energy consumption, enabling easy integration with various robot platforms and lowering the application threshold of flexible robotic systems



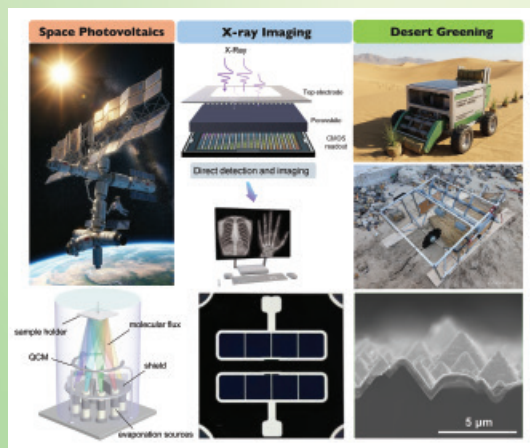


Vapero Technologies Limited

Vapero Technologies delivers perovskite platforms for power, sensing, and imaging in the world's harshest environments

Vapero Technologies offers perovskite-based platforms for power, sensing, and imaging in harsh environments. Our lightweight power surfaces enable energy harvesting for desert, off-grid, and space use. Pixelated detector arrays provide imaging-grade radiation, X-ray, and machine vision sensing. This dual architecture delivers multifunctionality under extreme conditions. Vapero is a key partner for aerospace, AgTech, industrial IoT, and autonomous systems where conventional materials fall short.

- Solvent-free vacuum deposition creates ultra-dense, pinhole-free perovskite films that resist heat, vacuum, and radiation
- Dual-architecture platform integrates large-area flexible power surfaces with pixelated detector arrays for multifunctional devices
- Engineered for extreme purposes, including space power, desert greening, and portable X-ray imaging, where conventional materials fail

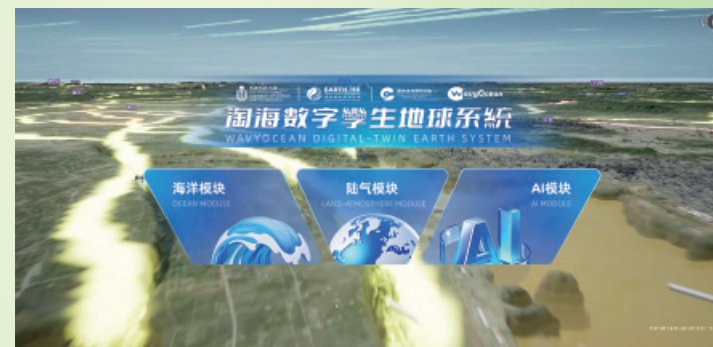


WavyOcean

WavyOcean: An integrated digital twin delivers immersive 3D ocean insights — diagnosis, analysis, and prognosis of Earth-system dynamics

WavyOcean, a digital-twin system which integrates ocean-land-atmosphere system to create a real-time, interactive 3D immersive visualization for diagnosis, analysis and prediction of ocean and regional earth system. This system builds on the earth system science, AI and new technology to serve academic research, environment monitoring, climate assessment and developments of blue industries.

- Global Connectivity: Achieving the first three-dimensional coupling modeling of "ocean-land-atmosphere."
- Seamless Virtual Navigation: Introducing a three-dimensional immersive interactive experience.
- Derivable Analytical Variables for: Unlocking the scientific codes behind the data.



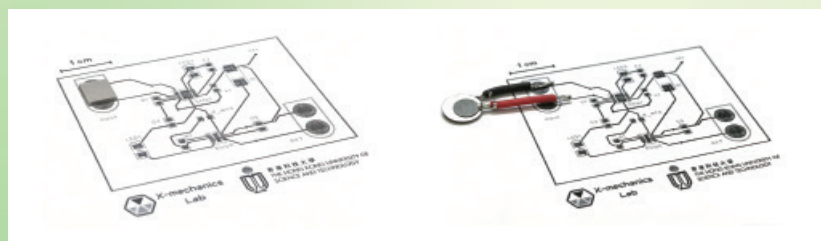


X-mechanics Lab

A pyroelectric harvesting system to convert low-grade waste heat to electricity

The technology converts temperature fluctuations from low-grade waste heat into electrical energy using phase-transition-engineered pyroelectric materials. Its material design incorporates multiple compositional configurations to support a broader operating temperature range, while the system integrates optimized thermal cycling, electrodes, and power management. This enables practical heat-to-electricity conversion for industrial, electronic, and environmental heat sources where conventional thermoelectric solutions are inefficient or costly.

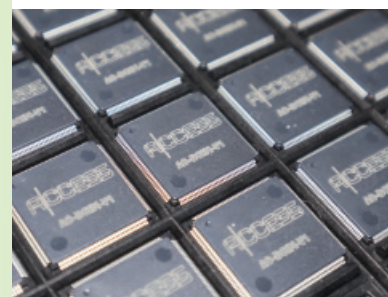
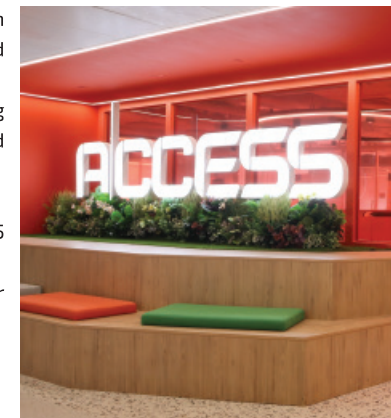
- Low-grade waste heat (100degC) conversion into electricity through pyroelectric energy converter
- Phase-transition-engineered pyroelectric materials with multiple compositional configurations adapting to environmental temperature for energy harvesting
- AI-powered closed-loop platform integrating functional materials discovery, performance characterization, and application-oriented fabrication



Design and Design Automation of Scalable Chips and Systems Supporting High Performance and Energy Efficient Inferencing and Fine-tuning of Large-scale AI Models

- Asia's first transnational R&D center on AI chip design established in 2020 under the government-funded InnoHK Initiative and solely owned by HKUST
- 4 core research pillars for tackling the most pressing in AI hardware – energy efficiency, performance and scalability
- 200+ publications in top-tier Journal & Conferences
- Hong Kong's First AI Chip Paper published in ISSCC 2025 (a.k.a. Chip Olympics), 2 more papers in ISSCC 2026
- 10+ patented technologies/ inventions available for licensing and commercialization

If you are interested in our technologies, please contact us.



Research Programmes

- Computing-in-Memory Architecture for Large-scale AI Models
- Hardware-Software Co-Design for Energy-Efficient and High-Performance Edge AI
- EDA (Electronic Design Automation) for Large-Scale AI Hardware
- Cross-layer Optimization and Demonstration for Targeted Applications

Commercialization

HarbourTek
High Energy Efficient
Edge Chip and System
for
Large AI Model



SiliconRight
AI Empowered
Design and Technology
Co-optimization for
High Barrier
Differentiation
IC Product



QuantaEdge
World Fastest
Quantitative Trading
Systems by
AC-CVXPY
in Financial Computing



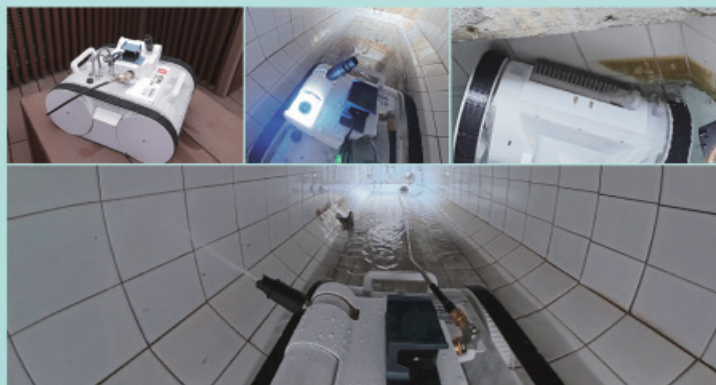
OctopOS
Robot Infrastructure
with Full-stack
Automated
Deployment
Framework and Hard
Real-time Platform



The InnoHK Hong Kong Center for Construction Robotics (HKCRC) is a world-leading innovation platform dedicated to advancing smart construction. Established in 2020 under the Hong Kong SAR government's InnoHK initiative, HKCRC is a collaboration between the Hong Kong University of Science and Technology (HKUST) and the University of California, Berkeley.

Smart Water Tank Cleaning Robot

A cutting-edge automated device designed to clean, remove sediment, and disinfect water tanks. By eliminating the need for labor entry into confined spaces, it significantly reduces the risks of asphyxiation, gas poisoning, heatstroke, and other potential hazards, greatly improving operational safety.



Smart Excavator

Quickly transforms construction machinery into a remotely controllable unit, equipped with a sophisticated video transmission system that allows operators to understand the site conditions in real-time, ensuring safe and efficient operation. It can also automatically complete designated tasks, significantly enhancing work efficiency and reducing human errors.



Harness science and technology to develop innovative diagnostic tools and therapeutic strategies for neurodegenerative diseases

- Established by HKUST, led by Prof. Nancy Ip
- Deliver breakthroughs that **revolutionize the healthcare landscape** and **enhance the quality of life** for the global population
- Key technologies **licensed to 5 spin-off companies** to develop and translate R&D outcomes

Blood-based biomarkers for Alzheimer's disease

- Developed a groundbreaking **blood-based multi-protein test** for **early detection** and **personalized management** of Alzheimer's disease
- Recent advancement: **Blood assay for brain-derived pTau217** — a highly specific and sensitive blood biomarker for Alzheimer's disease
 - Enhance accuracy in **detecting** and **staging** Alzheimer's disease-related brain pathology
 - Pave the way for a **high-performance diagnostic tool** for clinical practice
- Launched **community initiatives** that apply blood-test innovation to support proactive health management
 - **NeuroCare Community Project**
 - **HKUST Healthy Longevity Study**



Revolutionary therapeutics for Alzheimer's disease

- Identify **blood proteins as novel drug targets** for developing treatments for Alzheimer's disease
- Pioneer an **innovative genome-editing strategy** for familial Alzheimer's disease therapy





HKGAI

香港生成式人工智能研發中心
Hong Kong Generative AI
Research & Development Center

π 創新科技署
Innovation and Technology Commission



HKSRE
香港太空機械人與能源中心

Hong Kong Space Robotics and Energy Centre Limited (HKSRE)

Hong Kong Operation Robot: a multifunctional lunar surface mobile robot with embedded AI and dual arms

The Hong Kong Space Robotics and Energy Centre, funded by the Innovation and Technology Commission (ITC) of the Hong Kong SAR government under the InnoHK initiative, is dedicated to advancing space technology. The Centre facilitates international collaboration for the Chang'E-8 mission, a key step toward building the International Lunar Research Station (ILRS). Partnering with organizations from Hong Kong, mainland, and overseas, the Centre has been jointly conducting technological research and developing the mission's Hong Kong Operation Robot: a multifunctional lunar surface mobile robot with embedded AI and dual arms. This marks the first time Hong Kong is leading development of a lunar spacecraft.

This project not only represents a major technological milestone for Hong Kong but also reflects a broader vision: to integrate Hong Kong's strengths into the nation's long-term deep space exploration efforts and to demonstrate Hong Kong's capability to lead world-class, frontier science and engineering missions.

The Centre stands as a powerful example of how Hong Kong, under the "One Country, Two Systems" framework, actively contributes to national science and technology development while positioning itself as a global innovation hub.



BOOTH
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WHO IS HKGAI?



One of the research centers under the InnoHK program, a key initiative of the Hong Kong SAR Government.



HKGAI covers foundational model training, human-machine collaboration frameworks, and AI Agent networks, providing safer and smarter platform solutions for the industry.



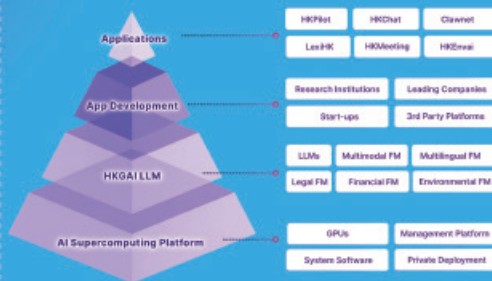
Driving generative AI researches and applications in Hong Kong, building a future where people and AI grow and thrive together.

π 創新科技署
Innovation and Technology Commission



HKGAI Strives To Build Hong Kong's AI Ecosystem

HKGAI develops a Hong Kong-specific AI ecosystem across computing platforms, large models, application development, and public services.



WHAT IS HKGAI DOING?

HKGAI develops a series of applications to be the AI buddy for Hong Kong citizens.



HKPilot

HKPilot supports office workers with smart writing tools to enhance work efficiency. It is currently being trialled to Hong Kong government.



HKChat

HKChat is an AI conversational app for Hong Kong citizens, with local knowledge and government open data. Fast, accurate support in Cantonese, English, and Mandarin.



HKMeeting

HKMeeting is an AI application designed for Hong Kong's unique multilingual environment. It automatically transcribes meeting audio, generates minutes, and enhances internal communication efficiency.



HKEnvai

HKEnvai uses AI and big data to support smart environmental decisions, automating monitoring, enhancing pollution control, and improving resource management in Hong Kong.



LexiHK

LexiHK is an AI-driven legal application, offering efficient, compliant, and professional legal assistance to Hong Kong government, professional institutions, and lawyers.



ClawNet

ClawNet is an AI agent collaboration platform in which each agent is permanently tied to its owner, enabling autonomous cross-user collaboration via structured negotiation with built-in trust governance and accountability mechanisms.

More Information

www.hkgai.org



BOOTH
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InnoHK Centers

Guangzhou HKUST Fok Ying Tung Research Institute. —HKUST's Largest Technology Transfer Platform in Mainland China

FYTRI, the first Hong Kong-backed research institution in Guangzhou, currently operates four incubation bases. We strive to build a core incubation and talent hub for youth tech innovation in the Greater Bay Area, providing workspaces, R&D labs, incubation programs and funding support to cutting-edge tech startups from China and overseas.

Who We Are Looking For



- Global HKUST alumni entrepreneurs & GBA young tech innovators
- High-caliber international tech teams for Guangzhou/Hong Kong
- GBA established enterprises seeking R&D & tech transfer

Four Key Incubation Bases



Incubation Support System

Leveraging HKUST's world-class research and GBA industry resources, we aim to build an internationally recognised tech innovation hub.

We offer complete incubation-to-industry support for tech startups, including workspaces, mentorship, funding, market development and policy application.

Desks

offices

Wet Labs

HKUST One Million Dollar Competition
(GZ region)

RedBird Incubation Programs

RedBird Set-Sailing Fund

HKUST (GZ) Office of Knowledge Transfer

Office of Knowledge Transfer

The Office of Knowledge Transfer of HKUST(GZ) was established in April 2023. The office consists of Intellectual Property Department, Entrepreneurship Center, and Training Center. It is responsible for planning, implementing, operating, and regulating knowledge transfer-related issues at all stages.

Entrepreneurship Center

- Entrepreneurship Ecosystem Fostering
- Campus Startup Support
(Email: ec-gz@hkust-gz.edu.cn)



Training Center

- Customized Program
- Executive Education
- Tech Acceleration
- Going global(chuhai) & Consulting
(Email: tc@hkust-gz.edu.cn)



Intellectual Property Department

- Intellectual Property Management
- Intellectual Property Operation
(Email: ipd@hkust-gz.edu.cn)





HKUST BLUE BAY

HKUST innovation and entrepreneurship incubator at Shenzhen

HKUST Blue Bay Incubator was officially established by HKUST in Shenzhen for entrepreneurs. Blue Bay has been upgraded to provide a comprehensive incubation system covering the entire spectrum of entrepreneurship. Acting as a bridge between university research and the market, Blue Bay helps startups grow and flourish in the Greater Bay Area by offering practical resources and multidimensional support. Through the integration of technology and innovation assets, Blue Bay serves as a functional link that enables startups to transition from initial ideas to sustainable businesses in the regional ecosystem.

- National-level Maker Space, 3 bases in Shenzhen providing one-stop services
- 163 HKUST-affiliated startups incubated
- 53 startups raised over 10 billion RMB in the mainland market; 56 startups secured over 50 million RMB in mainland government entrepreneurship funding



HKUST Foshan Center for Technology Transfer and Commercialization

Technology transfer and commercialization, entrepreneurship incubation and hosting the HKUST One Million Dollar International Entrepreneurship Competition in Foshan

FCTTC is an innovation and entrepreneurship incubator operating under the HKUST Foshan Research Institute. It was officially opened to all sci-tech innovation projects in March 2022. Located in Foshan Sanlongwan Sci-Tech City (Nanhai District), FCTTC is strategically positioned just a 10-minute drive from Guangzhou South Railway Station and within one hour's reach of major cities in the Greater Bay Area.

FCTTC not only provides support for HKUST faculty, students, staff and alumni, but also assists high-potential entrepreneurial teams in establishing businesses in Foshan, offering comprehensive services including startup mentorship, funding access and policy application support.





上海产数融合中心
SHANGHAI CENTER

HKUST Shanghai Center

A platform advancing Shanghai-Hong Kong collaboration and industry-academia integration for innovation

The HKUST Shanghai Center serves as a strategic gateway and open innovation hub for HKUST in the Yangtze River Delta. Guided by the principle of "Shanghai-Hong Kong Linkage and Industry-Academia Integration", it fosters an innovation ecosystem integrating talent development, industry acceleration, collaborative R&D and alumni engagement. Anchored in Shanghai's premier innovation district, the Center provides a landing pad for startups to bring innovative ideas into market.

- Education - "1+1" model combining study in Hong Kong with hands-on innovation practice in Shanghai.
- Industry - Bridging academia and industry to accelerate technology commercialization and scale real-world applications within the local ecosystem.
- Research - Driving joint R&D and technology transfer in AI, semiconductors, biomedicine, and green tech with national-level platforms.



**CU INNOVATION
HUB**

Chulaongkorn University

"Connecting Ideas,
People, and Possibilities"

**ipt InnoPhytoTech
Co., Ltd.**



SweetRevolution™ Less Sugar, More Function



Algae Deep Tech Co., Ltd

Fresh Air, Powered by Nature

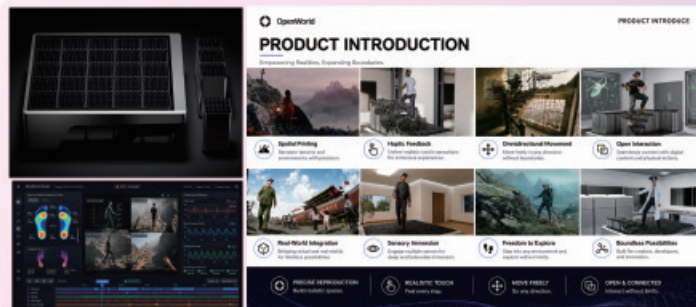


openworld

OpenWorld is building a next-generation multimodal spatial computing terminal for AI-generated 3D worlds. Founded by a Tsinghua team with expertise in human-computer interaction, embodied AI, robotics, hardware engineering, and multimodal sensing, OpenWorld connects digital world models with real physical interaction through programmable terrain, natural touchless control, and multimodal data capture.

It enables a "what you see is what you experience" interaction paradigm, allowing users to physically experience, control, and generate data from 3D worlds.

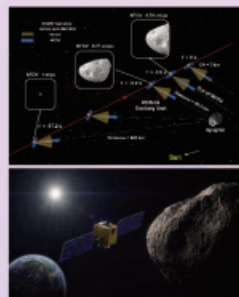
OpenWorld aims to become the essential entry point for spatial AI.



Apophis Close Flyby Exploration



Developed by a student-led team from Tsinghua University, the project designs a 250kg micro-satellite probe for the upcoming Apophis asteroid close flyby. Utilizing electric propulsion and autonomous control, the mission aims to capture high-precision data on tidal-induced orbital perturbations and internal asteroid structures. This project establishes a low-cost, fast-response paradigm for commercial space exploration. Backed by top-tier national innovation funding, it marks a pioneering student-led deep space mission supporting planetary defense and space mining.



Fluid AI

Want an AI Finance Team Member?

Fluid AI matches pay-ins with thousands of invoices in minutes, chases invoices across emails and WhatsApp groups - No more manual work!

www.getfluid.ai

hello@getfluid.ai

+65 8586 6713



IMPACT

FOUNDATION



Mission

Empowering impact-driven startups through incubation, investment, and global collaboration.

Vision

Building Asia's leading cross-border ecosystem for impact-driven innovation.

Achievements

- Discovered 2,107 impact-driven enterprises
- Invested in 32 startups
- Provided go-to-market support to 20 startups
- Estimated social value creation : approximately \$6.6B

Main Programs

- Impact Up : Impact startup accelerating program
- LIPS : Investment-led lifestyle startup support program
- K-Scouter : Support program for global startups entering Korea



Dia-Grip

All-in-One
Hand Rehabilitation
Diagnosis & Treatment
Solution

Our Strategy

- * Standardization of hand rehabilitation data
- * Expansion through clinical partnerships
- * Customized certifications & global exhibitions



MERIHAND collaborates with hospitals and universities to accumulate clinical data, aiming to establish a global standard for hand rehabilitation data



Vision - K-SDGs 3.1 / 3.8

- * Safe diagnosis and treatment for human health
- * Customized rehabilitation solutions for aging societies
- * Global market expansion based on international certifications

10% of the working population requires rehabilitation care

AI analysis and FES therapy are integrated into one system for faster and more accurate recovery support

Turning Rehabilitation Data into Recovery Solutions

Why Choose Us

- * MRI-Based Analysis
- * AI ROM Measurement
- * FES Rehabilitation Therapy
- * Scalable Global System

Dia-Grip

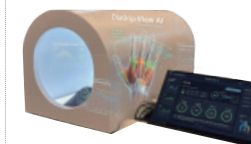
- * AI ROM & Muscle Analysis
- * FES Electrical Therapy
- * Medical Data Platform

Our Services

- * Diagnostic Device
- * FES Therapy Device
- * Web Platform

Diagnostic Device : AI ROM Measurement & MRI Analysis
FES Therapy Device: Personalized Rehabilitation Therapy
Web Platform: Data Sharing & Hospital Integration

Dia-Grip One-Stop Rehabilitation System
AI ROM analysis, MRI muscle interpretation, and FES therapy are combined into one rehabilitation platform



Sustainable Healthcare
MERIHAND develops clinically validated rehabilitation solutions for the global healthcare market

For Medical Staff
Access and analyze patient rehabilitation data

For Patients
Personalized rehabilitation guidance and monitoring



AI-Powered ATS (Applicant Tracking System) Recommending 3 Digital Talent with Disabilities for Your Company

Build an Inclusive Workforce with AI Recruitment

Jobility is an AI-powered ATS that leverages XGBoost+BERT to provide real-time accessible workplace information and recommend digital professionals with disabilities (developers, designers, and more) who are the perfect fit for your needs.

- 19** Successful Matches
AI-matched and hired digital talents with disabilities
- 65%+** Employment Retention for 6+ Months
Higher than the industry average
- Early Turnover Risk Detection**
AI identifies key factors of early turnover based on retention data

Data-driven insights to reduce early turnover and build sustainable, long-term employment.



- Real-time Job Matching**
AI matches candidates with suitable job openings instantly.
- Data-Driven Hiring**
AI-driven insights help reduce bias and improve hiring quality.
- Accessible Workplaces**
Provides information on accessibility features and support systems.
- Inclusive Community**
Connect, share, and grow together in an inclusive digital community.

For Employers
Hire skilled digital talent with disabilities and build a diverse, innovative, and sustainable workforce.

Diversity drives innovation.
Jobility drives change.

For Candidates
Discover opportunities, grow your career, and achieve your potential with Jobility.

Partners & Collaborators

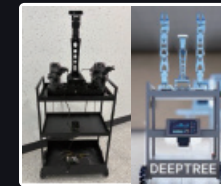
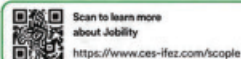


* Partnerships include Microsoft, KOICA INNOPORT, and more.



Jobility is operated by the Korea Employment Agency for Persons with Disabilities and is committed to creating an inclusive and equal workplace for all.

Contact Us
E: alencynn@kaist.ac.kr
T: +82) 10-5675-0986



TRIBO

A unified Physical AI robotics platform combining autonomous navigation, AI vision, and dual-arm manipulation for education and advanced research.

CORE CAPABILITIES

- ROS2 Modular Autonomy**
SLAM, navigation, teleop
- AI Vision**
Object detection, 3D bounding-box
- Bimanual Manipulation**
Coordinated dual-arm control
- Digital Twin & RL Sim**
Isaac Sim policy training
- Field-Proven Curriculum**
Education-ready content stack
- DRIVE**
4WD Independent
- PAYLOAD**
15 kg
- MANIPULATORS**
Dual 6-DOF Arms
- BATTERY**
~2 hr Runtime

PROOF POINTS

2,500+ hours of field deployment
20+ institutions across Korean R&D

USE CASES & TARGET MARKETS

- Education**
 - Robotics & control theory labs
 - ROS2 framework hands-on courses
 - Project-based dual-arm coursework
- Research**
 - SLAM & path-planning algorithms
 - Imitation / reinforcement learning
 - Human-robot interaction (HRI)
- Industry & Lab**
 - Indoor logistics & material handling
 - Bimanual assembly & inspection
 - Mobile testbed for sensor R&D



SeniorVibe corp - Active Ageing with Dignity

Pre-Senior. Pre-Medical. Prevention First.

A prevention-first AI platform targeting adults in their 40s-60s at the exact window when frozen shoulder is still self-manageable — before specialist care becomes necessary. Not rehabilitation, but an AI-powered transitional disease management system capturing the line between "manageable at home" and "requires specialist care."

Japan: 2 PoCs Completed. 400,000 Annual Visitors.

Two PoCs completed over one year at a major Japanese wellness hub: validating product-market fit and institutional willingness to pay in the world's most advanced super-aged society.

Validated Technology & Partnerships

- Intellectual Property : 6 patents (Korea + PCT international) · 1 exclusive license · 2 trademarks · full pipeline coverage
- KOTEC 100% Loan Guarantee : Full collateral-free guarantee approved; awarded to fewer than 5% of applicants at pre-seed stage
- 15 Public Program Selections in 12 Months : independent cross-sector endorsement of technology and business viability
- GBSA Residency : Admitted to Gyeonggi's premier government technology incubator
- Clinical & Expert Partnerships : Ewha University (technology commercialisation arm) · 1,500-pyeong (~5,000 m²) hospital partner · expert advisory panel : Ewha Mokdong Hospital (lymphedema center director), POSTECH (ergonomics PhD)

Core Business Value

Each measurement builds a proprietary longitudinal dataset that late entrants cannot quickly replicate. B2C data converts directly into B2B institutional revenue at 10-20x unit economics.

[Note] Current products are wellness solutions, not medical devices. SaMD approval will be pursued incrementally upon clinical validation.



AI Maskless Lithography for Fast, Flexible Microfabrication

Plancklab delivers a compact, AI-powered maskless lithography platform that replaces photomasks with digital pattern files, enabling faster and more affordable microfabrication in lab-scale environments.

Digital Lithography

- Photomask-free exposure from GDS, PNG, BMP, JPG
- Real-time design edits and process updates
- Sub-1 um-class micro-patterning

Lab-Scale Fab Access

- Clean bench-level operation
- C-mount attachment to optical microscopes
- Hands-on semiconductor process training

Key Benefits

- Shorter lead time
- Faster R&D cycles
- Flexible materials and process conditions

Applications

- Advanced packaging
- Microfluidics and lab-on-a-chip
- Biochips and organ-on-a-chip
- MEMS and functional materials
- Semiconductor education

Global Traction

- 9 Countries
- 60+ Systems supplied
- 40+ Universities & research institutions
- 39+ SCIE-indexed publications
- USD 600K+ Seed Funding

Selected Recognition

- TOP 5, Challenge! K-Startup 2025
- Minister of National Defense Award

Webpage : www.planck.co.kr
Contact : sales@planck.co.kr

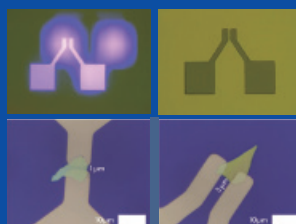


For More Details

LITHO MASKLESS



Olympus BX53 + LITHO MASKLESS



AaaS - AI as a Service

Know before you grow. Predict before you trade

Service introduction

- From first growth to final trade — one ecosystem.
- From farm management and crop monitoring to yield prediction, price forecasting, and forward trading.
- Agentic AI turns farm's data into real-time guidance, and field intelligence into global trade decisions.
- Yield prediction error rate of 0.2% — 26x more accurate than national statistics.
- Price prediction error rate of 3.3%.
- Transaction revenue CAGR 88% · 50B+ accumulated farm data · 40+ IP portfolio · 650+ global subscribers.
- Proven in the field. Scaling across Asia.



Arky - Writing tools are linear. Your mind wasn't built for that.

Arky is an AI canvas that helps vague ideas evolve into decks, docs, and plans.

What is Arky?

- A structured canvas built on markdown where you shape knowledge with AI
- Classify content by topic, set hierarchy with drag-and-drop, define flow with arrows
- Expands linear chat into a spatial canvas: see the whole picture, reduce cognitive load
- Build context first, then export as 1-pagers, 16:9 slides, A4 reports, and more

Who uses it?

- 1,700+ users across 50+ countries
- Researchers, founders (product builders), and grad students with messy, complex ideas

Try arky.so

MARKETPLACE



UG/F,
Martin Ka Shing Lee
Innovation Building &
Cheng Yu Tung Bridge

AUISET Biotechnology Company Limited



COMPANY INTRODUCTION

Leveraging AIE (aggregation-induced emission) technology from HKUST, pioneered at HKUST, enables ultra-sensitive, point-of-care detection without complex instruments. By exploiting the unique fluorescence turn-on effect upon target binding, AIE-based biosensors deliver rapid, visible readouts from minimally invasive or non-invasive samples (urine, saliva, swabs). This platform is low-cost, robust, and adaptable for diverse biomarkers—ideal for decentralized home health monitoring.

- AIE fluorescence turn-on mechanism – ultra-sensitive, background-free detection without expensive instruments
- Versatile sample adaptability – works with urine, saliva, swabs; non-invasive, rapid, and easy to read
- Low-cost, scalable, and stable – ideal for point-of-care and at-home decentralized health monitoring



BOOTH
NO.
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Bio-Medical and Healthcare (BMH)

Detection of Alzheimer's Disease with a Simple Blood Draw

Principal Investigator | Prof. Nancy IP, Division of Life Science, HKUST

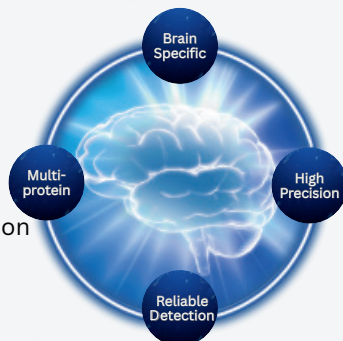
Description of Invention

First-in-class multi-protein panel for biological detection for Amyloid- β pathology and co-pathologies

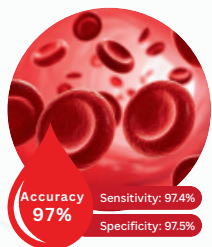
Our cutting-edge diagnostic system employs proteomics and advanced machine learning to detect early-stage Alzheimer's before symptoms through analyzing blood biomarker changes. This technology facilitates monitoring disease progression and treatment response for timely, personalized therapeutic strategies.

Key Technology Edges

- ✓ **Early Detection:**
Identifying Alzheimer's Before Symptoms Appear
- ✓ **Disease Monitoring:**
Track Progression and Treatment Response with Precision
- ✓ **Screening Tool:**
Enabling Early Interventions to Alter the Course of Alzheimer's



PlasmakAD[®] Brain-derived pTau217 Pro Series



22 blood biomarkers analysis
(including brain-derived pTau217 & NFL)

Comprehensive Pathway Analysis



COMPANY INTRODUCTION

Lulusmiles is powered by DBT.ai, an advanced orthodontic platform that automates clear aligner treatment. Using computer vision and deep learning, it analyzes intraoral scans, detects dental anatomy, and generates precise treatment plans with tooth segmentation, root position estimation, and movement simulation. DBT.ai designs custom aligners with automated staging and attachment placement, reducing manual labor and error while improving efficiency and affordability. Real-time AI monitoring supports clinicians in tracking progress and adjusting plans remotely. This backbone enables Lulusmiles to deliver predictable orthodontic care, often achieving results in as little as three months without compromising safety or quality.

- End-to-end AI automation of orthodontic workflows
- Enhanced precision and outcome predictability through AI
- Smart, patient-centric remote monitoring via Smile Cam and app
- Accessible and transparent orthodontic care
- Cross-border and remote hybrid service model





COMPANY INTRODUCTION

E3A Healthcare is a women's health MedTech company founded in 2019 from Singapore. The company develops AI-powered, non-invasive biosensing medical devices for maternal, newborn, and women's healthcare. Its core products include Modoo, a non-ultrasound fetal monitor with Precision AI labor prediction, and Nora, a drug-free neuromodulation treatment for endometriosis and chronic pelvic pain. To date, E3A has served over 300,000 families and raised more than USD 15 million, demonstrating strong clinical value and global growth potential.

- AI-powered biosensing platform: E3A Healthcare's proprietary AI platform integrates multimodal physiological signals and predictive algorithms to enable earlier clinical decisions and home-based care for women's health and maternal-infant care.
- First-in-class product innovation: Modoo offers non-ultrasound, radiation-free fetal monitoring and labor prediction via passive acoustic sensing. Nora provides a non-drug neuromodulation solution for chronic gynecological pain.
- Hospital-to-home integration: E3A extends hospital-grade monitoring into home settings through device connectivity, AI-driven risk prediction, and scalable clinical pathways, enabling continuous care, early warning, and improved accessibility.



COMPANY INTRODUCTION

Global Medical Biotech Limited (GMB) provides one-stop integrated research platforms for developing natural health products from the research bench to the market. The intellectual properties, such as experimental data and patents, generated by GMB are the company's core business value.

- The self-developed herbal products by GMB are tailored for the consumers of different ages under sub-optimized health conditions.
- GMB is aiming to identify phytochemicals from Chinese herbs for Discovering new drugs
- Redevelop Traditional Chinese medicine formulas and register them as proprietary Chinese medicine

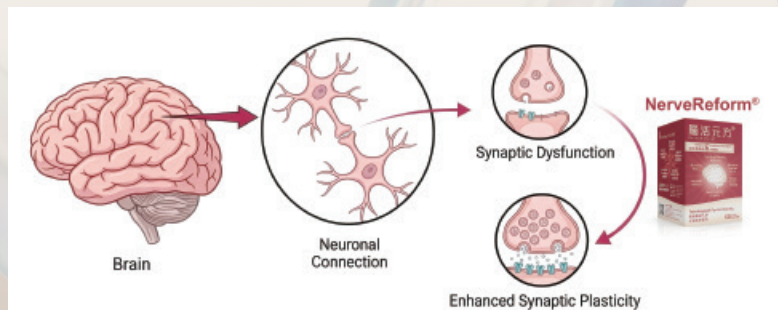




COMPANY INTRODUCTION

Neurons in the brain transmit messages through synapses. Aging can lead to synaptic degeneration, thus affecting memory. A research team from HKUST combined cutting-edge molecular neuroscience with traditional Chinese medicine theories to develop a natural herbal formula that promotes synaptic plasticity, transforming active Chinese herbal extracts into the "Cogniherbs" series of products. Scientific studies have proven that these products effectively enhance synaptic function, providing innovative solutions to age-related cognitive problems.

- Developing synergistic formulations to promote neuroplasticity by targeting the underlying etiology of memory decline.
- Utilizing cutting-edge screening technologies to validate the efficacy of selected medicinal herbs in enhancing synaptic function.
- Investigating the impact of Traditional Chinese Medicine (TCM) on neurological functions and pathological mechanisms using models of age-related brain disorders.



COMPANY INTRODUCTION

Smart eyecare, made for everyday life

OOley Care merges high tech with daily wellness through three primary pillars:

- AI-powered Smartphone Eye Check (O-Keratometer): Scan your eyes with your smartphone and check on your eyes in one minute. AI-powered fatigue risk analysis turns any smartphone into a personal eye-screening tool. Built for everyone, with no expertise or clinic visit needed.
- Daily Eye Comfort Wearable (O-Goggle): Soothing warmth for lasting comfort. This wearable combines targeted thermal therapy with rhythmic stretching to relieve eye strain and tightness. A daily essential for elderly users and office workers with long screen hours.
- Home-to-Lifestyle Eye Wellness Ecosystem: Bringing high-tech eye care into the rhythm of everyday life. Accessible, connected, and care-driven.



AI for a Brighter, Harmonious Life

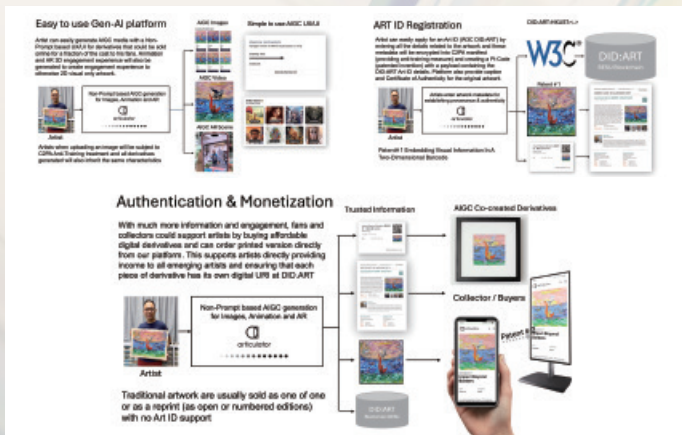
Empowering People, Enhancing Wellbeing



COMPANY INTRODUCTION

Articulatord.ai is a one-stop platform for artists to create, register Art IDs, authenticate, and monetize digital art using AI and blockchain-based DID:ART. It embeds secure watermarks, supports IP rights, and provides e-Commerce suite for artists.

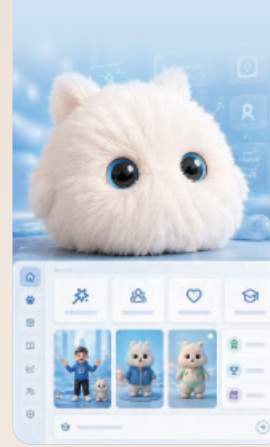
- Patented technology (US 8,948,445 B2/ CN 103383738B) embeds visual information in a picture-based QR code, storing Art ID and ownership data invisibly in artworks and derives.
- W3C-compliant decentralized identifier (DID:ART/DID.ART domain name) registers unique Art IDs on a blockchain-enabled database, ensuring tamper-evident provenance.
- Simple one-stop Gen-AI platform with non-prompt based UX/UI for a variety of media and integrated shopping cart.



Aquamind

2B Platform

Create AI Mascots
for Your Brand
AI Mascot Creation Platform



Loomyn+

2C Self-discovery

Multi-Discipline
Metaphysic AI Companion
1st Metaphysics AI Agent & Device



ORACUBE
Wellness & Healthy AI

2C Wellness

AI Wellness for
Everyday Home Life
Your AI Emotional Wellness Companion



Intelligent
Personalization

Holistic
Wellbeing

Privacy &
Security

Human-Centered
AI

Focuses on the convergence of anthropomorphic, mechanical, and digital life technologies. For corporate brands and IP partners, we create physical AI brand ambassadors with figurine-grade craftsmanship, lifelike expressions, and dynamic interactions—delivering a new generation of immersive brand experiences. Our no-code core platform makes it easy to integrate proprietary knowledge bases, brand stories, and engagement goals into the AI brain, enabling every ambassador to embody your brand's unique personality and values.

Built on the same core technology, we also offer our consumer-facing product, Loomyn—the world's first functional AI companion inspired by astro psychology. Backed by more than a decade of hands-on metaphysics expertise, Loomyn is designed to accompany users on a journey of self-discovery, offering meaningful insights and helping them explore the inner universe of the mind.

REGISTER NOW
EVENT RSVP
Secure your booth today!

Or visit: <https://deep-edge.ai/en>



Contact us



COMPANY INTRODUCTION

Cutting-edge large AI model technology powers Fortuna Lab's intelligent system. It integrates deep learning, data analysis and intelligent algorithm capabilities. Tailored for cosmetics and consumer goods sectors, it accurately evaluates product advantages, analyzes user demands, and delivers objective insights to help users make scientific, rational and optimal consumption choices efficiently.

- Integrate cutting-edge large AI models to empower intelligent consumer decision-making iteration
- Blend fintech, edtech and trade sectors to build a diversified tech ecological layout
- Fortuna wealth-driven tech innovation creates exclusive high-value digital service systems



COMPANY INTRODUCTION

The BBR technology suite advances assistive robotics in two stages. BBR 1.0 is a lightweight passive exoskeleton for knee osteoarthritis, using a spring-based mechanism to reduce joint loading by 21.2% and walking effort. It harvests braking-phase energy to power electrical stimulation, cutting perceived pain by 47.8% and achieving a 0.38 W/kg augmentation factor. Building on this, BBR 2.0 integrates AI and advanced motion control, evolving into an embodied collaborative robot for education, research, and next-generation human-machine systems.

BBR's three technology edges:

- Passive Mechanical Augmentation with Energy Recirculation
 - spring-based mechanism harvests gait energy for self-sustaining pain relief
- High-Efficiency Biomechanical Offloading
 - 0.38 W/kg augmentation, 21.2% joint load reduction, sub-1kg design
- Evolutionary Platform
 - progression from therapeutic tool to intelligent, versatile AI-enabled robot





COMPANY INTRODUCTION

Intelligent Design Technology is a research-based company providing healthcare and business solutions with machine learning and cloud computing technology. Our mission is to leverage innovation to enhance the well-being of our community. We are dedicated to helping our clients optimize their operations with our robotics and thermal sensing solutions.

- AI-empowered
- Companion Robot for Healthcare
- Companion Robot for Education



COMPANY INTRODUCTION

NCCO (Nano Confined Catalytic Oxidation) is an innovative air purification technology that effectively decomposes harmful pollutants, including VOCs, bacteria, viruses, and odors, into harmless water and carbon dioxide. With long-lasting, reusable filters and low energy consumption, NCCO provides sustainable, high-efficiency air treatment solutions. Widely applied in homes, healthcare, and public spaces, it ensures cleaner, healthier environments while reducing environmental impact and operational costs.

- Innovative NCCO technology decomposes pollutants at the molecular level, providing efficient, long-lasting, and eco-friendly air purification solutions
- Comprehensive one-stop solutions, from environmental analysis to maintenance, tailored to meet diverse air quality improvement needs across industries
- Proven applications in diverse environments, including healthcare, public spaces, and homes, ensuring safe, clean, and sustainable air quality solutions





COMPANY INTRODUCTION

Petsona is a Hong Kong-based PetTech company that harnesses AI-driven precision nutrition to redefine canine health. At its core, Petsona's proprietary algorithm ingests each dog's biometric data to calculate individualized micronutrient requirements and generate fully customized meal plans.

- Calculates individualized micronutrient requirements based on each dog's biometrics (age, breed, weight, activity level, health conditions), going beyond the generic customization offered by competitors
- Formulas co-developed with vets and PhD nutritionists, validated against AAFCO and FEDIAF standards
- Retains over 90% of nutrients per meal, outperforming kibble and matching freeze-dried alternatives at a lower cost



COMPANY INTRODUCTION

PetWell combines a consumer-facing iOS/Android app with a B2B SaaS system for vet clinics. The core technology features an AI-powered health diary that analyzes daily logs—such as diet, mood, and symptoms—to establish baselines and generate predictive alerts for hidden diseases. Furthermore, the platform integrates GPS and unified databases for real-time 24/7 vet clinic searches, seamlessly linking owners to transparent medical services.

- AI-powered predictive health tracking that analyzes daily logs to detect hidden diseases and alert owners early
- A unified 24/7 veterinary clinic search engine equipped with GPS tracking and verified authentic user reviews
- A dual-sided ecosystem integrating an intuitive consumer app with a B2B SaaS platform for seamless clinic management



Pretty Useless Club



COMPANY INTRODUCTION

Pretty Useless Club is the world's first "fast toy" brand—an AI-driven studio disrupting traditional manufacturing by turning viral internet trends into physical products within 48 hours. Using proprietary AI and on-demand 3D printing, we operate a zero-inventory, direct-to-consumer model. Our model bridges digital culture and physical goods. With >1M social followers dedicated to our original IP and brand collaborations like Hyrox, Chagee, and Kiehl's, we turn fleeting digital moments into high-demand tangible reality.

- Idea → Product in 48 Hours: Traditional toy industry takes 6–18 months. We close the loop in 48 hours with our AI Toy Agent.
- Zero Inventory Risk: On-demand production from our own print farm. We print only what's sold. Zero loss on unsold stock.
- AI-Driven Decisions, Not Guesses: Our AI analyzes social sentiment (ugly-cute, healing, FOMO), cross-platform virality, and commercial validation before we produce anything.



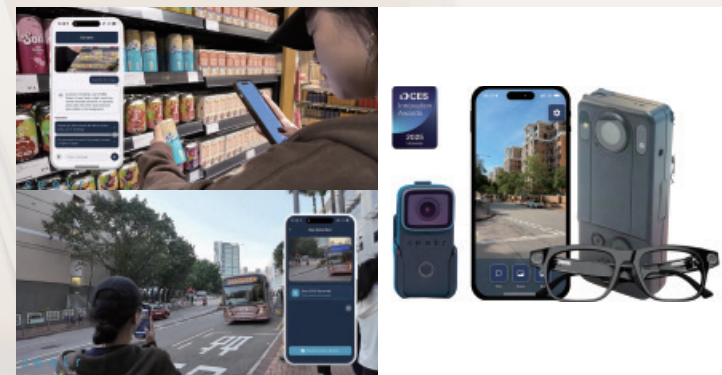
Vidi Labs Limited



COMPANY INTRODUCTION

Seekr is an AI-powered assistive technology platform designed to support visually impaired people and older adults with real-time mobility and independence. It combines computer vision, speech, and contextual guidance through a mobile app and wearables to describe scenes, read text, identify objects and obstacles, and provide step-by-step directions and situation-aware prompts for hands-free daily use.

- Real-time, multimodal assistance (vision + speech) built for mobility: instant scene description, text reading, and obstacle/context cues optimized for on-the-move use (walking, shopping, transit, airports).
- Hands-free, low-friction UX across app + wearables: voice-first interaction (push-to-talk/background help) with wearable options for faster access.
- Designed for complex public spaces and partners (e.g., airports): situation-aware guidance and tailored workflows supporting navigation and accessibility at scale.

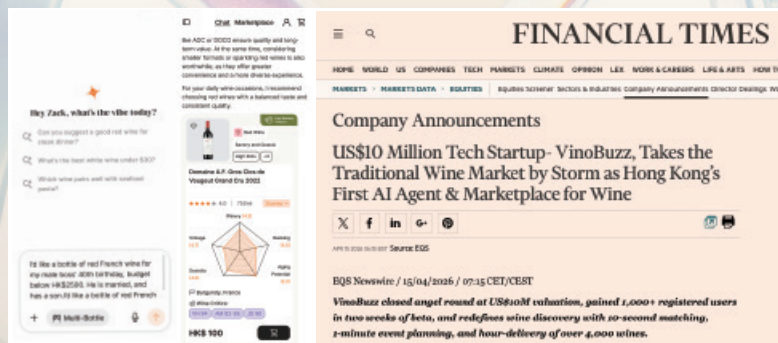




COMPANY INTRODUCTION

Asia's first AI agent wine and experience marketplace

- Proprietary AI sommelier delivers personalised wine matching in 10 seconds – faster and more accurate than any human recommendation.
- Only platform combining AI agent, 4,000+ SKU marketplace, and 4-hour temperature-controlled delivery in a single seamless experience.
- Closing angel round at US\$10M valuation with 1,000+ beta users in two weeks – proven market demand and investor confidence.



香港科技大學 - Absolute Pure EnviroSci Limited
環境科學健康與環境創新聯合實驗室

COMPANY INTRODUCTION

The brand offers products that incorporate the groundbreaking GERMAGIC technology that uniquely offers a long-lasting intelligent antiviral coating which effectively eliminates bacteria and viruses including coronavirus.

By harnessing the power of GERMAGIC technology, GERMAGIC PET aims to provide pet owners with innovative solutions to enhance the health and well-being of their cherished companions.

- HKUST MAP-1 coating that provides long lasting antimicrobial protection to pets
- Excellent product assurance to pets as our products are approved by SGS and verified by vets from QPP
- Natural ingredients making it safe for pets (even for licking)





COMPANY INTRODUCTION

AlGreen's technology uses advanced microalgae photobioreactors to naturally capture carbon dioxide and release oxygen through photosynthesis. Integrated sensors and IoT monitoring provide real-time environmental data, enabling measurable carbon reduction and air quality insights. Designed for both compact indoor use and larger commercial installations, the systems combine biotechnology, engineering, and smart analytics to deliver visible, scalable climate solutions for sustainable buildings and urban environments.

COMPANY INTRODUCTION

Breer uses a modified brewing process that replaces barley with surplus bread as the primary starch source, drying and breaking loaves into pieces. Mashing them with water extracts fermentable sugars to create wort, which is fermented with yeast to produce alcohol for beer and other craft beverages. Breer also incorporates additional raw materials such as used coffee grounds, fruit-based ingredients, or other food-waste-derived components into the mash for flavoring.

- Visible carbon capture process enhances environmental awareness while delivering functional air purification and sustainability impact.
- Advanced microalgae strains maximise carbon absorption efficiency within compact, energy-efficient photobioreactor systems.
- Modular, scalable design enables seamless integration across homes, schools, and large commercial environments.

- Replaces barley with surplus bread as the main starch source, cutting food waste and input costs
- Uses a tailored mashing and fermentation process to extract high-yield sugars from bread for consistent beer quality
- Adds organic flavor raw materials (like coffee, fruit-based or food-waste-derived ingredients) to create unique, sustainable craft beverages



Bunny Churos



COMPANY INTRODUCTION

We co-invented a gelato dispenser machine with a local Hong Kong factory, ensuring superior safety and hygiene for soft serve.

- Co-invented proprietary gelato dispenser with local Hong Kong factory, ensuring superior hygiene and safety standards for soft serve.
- In-house R&D localizes Spanish churros and Italian gelato with Hong Kong flavors—Silky Tofu, Hojicha, Jasmine—creating proprietary recipes unmatched by global competitors.
- Pioneered pet-nutrition R&D producing veterinarian-aligned gelato—lactose-free, xylitol-free, low-sugar—setting Hong Kong's first food-safety standard for pet desserts.



Busy Brew Limited



COMPANY INTRODUCTION

Busy Brew develops plant-based canned lattes using a proprietary formulation that optimizes oat milk stability, texture, and shelf life without dairy or added sugar. Our process integrates Vietnamese coffee extraction with oat milk emulsification to deliver a smooth, barista-quality taste in a ready-to-drink format. Manufactured through a tightly integrated supply chain, we ensure consistent quality, scalability, and cost efficiency.

- Proprietary oat milk and coffee emulsification process ensuring stable, creamy texture without dairy or added sugar in canned format
- Hong Kong's first plant-based canned coffee brand, pioneering a new category in ready-to-drink beverages
- Distinctive, premium branding designed for Gen Z, driving strong shelf presence, shareability, and viral social media engagement



BOOTH
NO.
105

Materials, Energy and Sustainability (MES)

BOOTH
NO.
106

Materials, Energy and Sustainability (MES)



斤兩食品
C&T Products

製香
造港

COMPANY INTRODUCTION

To blend traditional dried seafood craft with modern methods, upholding Cantonese culinary heritage

- Catty & Tael goes beyond a traditional restaurant, leverages business knowledge to create a flexible and efficient modern dining model
- The brand's core lies in standardising and commercialising traditional preparation methods. e.g. vacuum-sealed & flash-frozen preservation
- The edges also lie in upholding and advancing traditional culinary skills

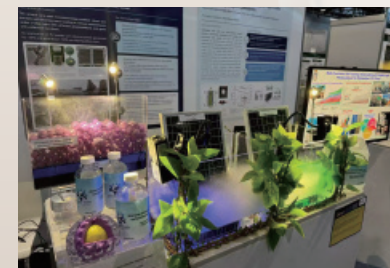


Coalot Tech
Materials Innovation

COMPANY INTRODUCTION

Coalot Tech has developed a multimodal nano-core-shell platform using proprietary nano-microfluidic technologies. Flagship products include: (1) Quantum Dot Photovoltaic Coating – broadening spectral absorption, boosting UV conversion, and delivering 15–20% power gain with self-cleaning; and (2) Ice-Shield Transparent Thermal Insulation Film – reducing surface temperatures and HVAC energy use. Supported by 10+ patents, validated at Hong Kong Disneyland and Shanghai Ruian Real Estate.

- Dual-Function Photovoltaic Coating
Quantum dot coating delivers 15–20% power gain via UV-down conversion plus self-cleaning, boosting energy yield while cutting maintenance costs—unlike single-function alternatives requiring separate treatments.
- Triple-Action Thermal Management Film
Ice-Shield uses core-shell particles for reflection, absorption, and radiative cooling, validated by building energy modeling—outperforming conventional IR-reflective films with metallic layers prone to degradation.
- Full-Spectrum Implementation Support
From in-house R&D and climate-adaptive engineering to turnkey deployment, we deliver customized solutions backed by landmark projects including Hong Kong Disneyland, Swire Properties, and Henderson Land.





願科官網 微信公眾號



願科 (香港) 環保科技有限公司
EcoTech (HK) EnviroProtect Technology Ltd

VCEMQX™
盡藻達系列



系列產品



鯨躍智濾
魚缸淨水專用版



水產養殖專用版



專業版



工業專用版

應用案例

願科為香港水務署鹹水配水庫水質保護



ESGuardian Limited

ESG

COMPANY INTRODUCTION

ESGuardian's patented silica capsule technology is an advanced encapsulation system using nano-structured porous silica with pore sizes between 2 and 50 nanometres. The silica matrix occupies only 1-10% of total volume, loading active ingredients at 90-99% capacity and removing water and fillers. One 15-gram capsule replaces a 500ml bottle, reducing logistics weight by 99% and carbon emissions by up to 90%.

- Technology Edge: Ultra-high loading (90-99% active ingredients) in nano-porous silica capsules (2-50nm pores) with water-activated controlled release for up to four reuses, end-of-life degradation into sand, 99% weight reduction, and 90% lower CO₂ emissions.
- Uniqueness: Ships zero water, enables multi-cycle reuse, and supports versatile applications unlike single-use tablets or liquid concentrates.
- Services: B2B white-label supply, custom formulation, dispenser co-design, testing, certification, workshops, and ESG consulting.



BOOTH
NO.
101

Materials, Energy and Sustainability (MES)

BOOTH
NO.
127

Materials, Energy and Sustainability (MES)



COMPANY INTRODUCTION

We extend produce shelf-life using custom freeze-drying technology, and upcycle high-fiber food by-products, such as spent coffee and brewer's grains, into biodegradable utensils.

- Sustainable functional food and optimised sports nutrition products contributing to better health and minimising food waste in the supply chain
- All natural, custom formulations for F&B outlets minimising operational expenses and preparation times
- R&D-to-commercial products Integrated Upcycling Solutions for Corporates and Manufacturers



COMPANY INTRODUCTION

iGo Tech is a HK based AI and IoT technology company developing smart solutions integrating AI analytics, IoT sensors, connectivity across two solutions: Hidden Wonders for Smart Greenery , microclimate, plant health and energy impact monitoring , and ResQNet for SOS, GPS, height/floor content and emergency messaging in weak or no telecom signal areas. The platform converts signals with AI engine into operational intelligence to monitor conditions, automate actions and measure insights.

- Hidden Wonders combines environmental sensing, plant intelligence and AI analytics to quantify greenery impact on comfort and cooling load.
- ResQNet uses LoRa-based emergency communication for SOS, GPS and status updates where telecom signal is unreliable
- AI engine analysis sensors, site conditions and operational data to predict patterns and risks, recommendations and quantify impact.





COMPANY INTRODUCTION

We integrate standardized industrial manufacturing with precision cross-border cold-chain logistics to ensure food safety and quality consistency. Our technology focuses on Supply Chain Resilience, utilizing real-time monitoring to maintain freshness from factory to table. By bridging agile R&D with high-volume production, we rapidly scale bespoke culinary formulations into cost-competitive solutions, meeting the rigorous standards of Hong Kong's leading F&B enterprises.

- Industrial Scale & Consistency
Standardized mass production ensures uniform quality at any volume.
- Precision Cold-Chain Logistics
Cross-border IoT monitoring ensures zero-risk freshness and food safety.
- Agile R&D Customization
Rapid "Lab-to-Factory" iteration for bespoke client menu requirements.



MUSHROOM
Innovation Tech Limited

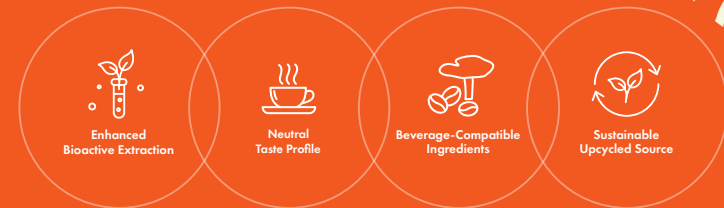
FUNCTIONAL INGREDIENT TECHNOLOGY FOR NEXT-GENERATION BEVERAGES & FOOD

Developing **advanced mushroom-derived functional ingredients** using proprietary extraction technology for modern food and beverage applications.



CORE TECHNOLOGY

ADVANCED MUSHROOM EXTRACTION PLATFORM



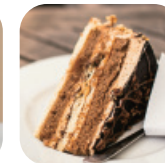
COMMERCIAL APPLICATIONS



Functional Coffee



RTD Beverages & Wellness Beverages



Functional Food Applications



Functional Supplements



OEM Ingredient Solutions

TECHNOLOGY ADVANTAGES



Improved formulation compatibility



Designed for scalable beverage integration



Better consumer taste acceptance



Suitable for mainstream functional products

WE ARE SEEKING

OEM Partners
Beverage Brands
Strategic Investors
Co-Development Opportunities



Unlocking the Future of Functional Beverages
Scan to connect!



COMPANY INTRODUCTION

not only powder is a creative upcycling and wellness company reimagining food waste through design, technology, and community-driven innovation. The company transforms overlooked food materials into wellness products, creative experiences, and educational workshops that make sustainability more engaging, desirable, and connected to everyday life. By combining low-energy upcycling methods with selective use of AI, nop creates scalable and human-centered circular solutions.

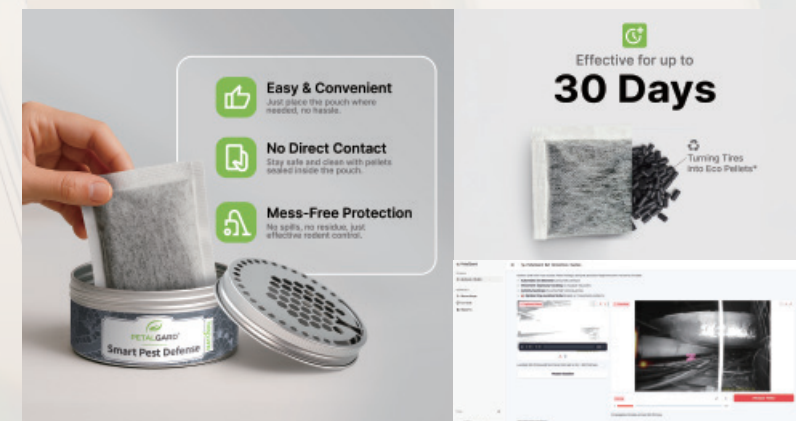
COMPANY INTRODUCTION

PetalGard® Protection: Patented pheromone removal technology that disrupts rodent trails at the source.

AI-Powered Intelligence: Infrared monitoring and heatmaps identify "Killing Zones" and "Protection Zones," delivering predictive alerts for targeted intervention.

- Low-energy upcycling transforms surplus food materials into powders, snacks, wellness products, and extended-life applications
- Flexible circular innovation adapts diverse food waste streams into customized products, workshops, and commercial collaborations
- AI supports customer engagement, personalization, and product innovation while enhancing scalability and community impact

- PetalGard empowers service providers, property managers, and consumers with a modern alternative to traditional, labor-heavy, and data-sparse methods.
- We integrate advanced AI Agent intelligence to shift pest management from reactive manual labor to proactive, automated defense.
- Our proprietary technology transforms hazardous waste into high-value urban wellbeing products.



UPCOMING EVENTS



GENEVA INVENTION PROJECTS



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