NUS DEEP TECH START-UP SHOWCASE TEAMS BOOKLET

RUN 10

LIFT-OFF DAY

FEATURING 14 DEEP TECH INNOVATIONS AND TECHNOLOGIES

NUS GRIP
GRADUATE RESEARCH INNOVATION PROGRAMME

NUS National University of Singapore | Enterprise

PROGRAMME SCHEDULE

8.45AM

Onsite Registration
(Physical, by invitation only)

9.30AM

Welcome Speech

Professor Chen Tsuhan
Deputy President (Innovation and Enterprise),
NUS

Opening Speech

Associate Professor Benjamin Tee
Associate Vice President,
NUS Enterprise

9.45AM

Keynote Address

Ms Caecilia Chu
Co-Founder and CEO,
YouTrip

10AM

Team Pitching and Q&A

Run 10 Teams

1. GeoCore Solutions
2. Sensori Healthcare
3. Guardly
4. Hi-Transfer
5. GenVoice
6. HomePal
7. PronioBioTech
8. Spacejot

GRIP Alumni

1. HiCura
2. UnoMove
3. Forte Biotech
4. Cellivate Technologies
5. Liloss
6. Marino Solar

11:40AM

Networking Lunch

2.00PM

Event Ends

KEYNOTE SPEAKER

Caecilia Chu
Co-Founder and CEO, YouTrip

Caecilia is the Co-Founder and CEO of YouTrip, Southeast Asia's leading financial technology company dedicated to creating the next-generation of digital financial services for consumers and businesses.

Prior to founding YouTrip, Caecilia worked at Citi overseeing growth investments in the technology and consumer sectors. Before that, Caecilia worked at McKinsey advising financial institutions across Asia on product and growth strategies. Her fintech experiences prior to YouTrip include positions at Lufax, China's leading online wealth management platform, and QF Pay, a mobile payments company backed by Sequoia China.

Caecilia was named to the global list of Top 50 Financial Technology CEOs in 2021. She was also ranked amongst the Top 10 Fintech Leaders in 2020 and 2021 by the Monetary Authority of Singapore and Singapore FinTech Association (SFA), and recognised as the Tech Leader of the Year by the Singapore Computer Society in 2022. Caecilia is an independent director at SGX-listed iFAST Corporation Ltd, and has been elected as chairperson of the payments group sub-committee for SFA.

Caecilia has an MBA from Harvard Business School and a bachelor's degree in finance (summa cum laude) from The Wharton School of the University of Pennsylvania.

RUN 10 TEAMS

1	**GENVOICE**	Your Voice Matters	**5**
2	**GEOCORE SOLUTIONS**	Transforming Geotechnical Engineering Through Innovation	**6**
3	**GUARDLY**	Pocket-size Peace of Mind	**7**
4	**HI-TRANSFER**	2D/3D Heterogeneous Integration Next Generation of Micro-transfer Printing	**8**
5	**HOMEPAL**	Empowering Every Care Journey	**9**
6	**PRONIOBIOTECH**	Back on Your Feet with PronioOA™	**10**
7	**SENSORI HEALTHCARE**	Pioneering Science, Advancing Care	**11**
8	**SPACEJOT**	Designing Captivating Realities	**12**

GenVoice

Your Voice Matters

ADHD assessment is highly inefficient and subjective. Due to the reliance on assessors, 60% ADHD patients reported that they have to seek multiple opinions from different practitioners. GenVoice is a one-stop platform for ADHD, with key feature being an Automatic Voice-based Assessment Tool. Trained on both ADHD and Neurotypical voice samples, GenVoice analyzes underlying patterns of acoustic characteristics and generates explainable predictions of ADHD through comparisons with benchmarked data. With ability to identify ADHD signals from voice alone, GenVoice is 25% faster, up to 60% cheaper and easier to use.

Tan Xinyu Zoe
Chief Executive Officer

Harshavardhan Sunil Abichandani
Chief Technical Officer

Professor Roger Ho Chun Man
Advisor

Dr Brian Lim
Technical Advisor

John Kaniyil Phillip
Venture Architect

Shen Nansheng
Commercial Champion

Jonathan Tan
Technology Manager

Back to Teams

GeoCore

Transforming Geotechnical Engineering Through Innovation

Common Quality Assurance and Quality Control (QA/QC) methods for cement-based structures, such as seawalls, involves destructive coring and lab testing. These methods risk weakening the structure due to its intrusive nature. Furthermore, they are costly, potentially unrepresentative, and lack real-time monitoring capabilities.

GeoCore Solutions offers a non-destructive, efficient, and representative QA/QC solution. Our solution GeoPrime system integrates seamlessly during construction, enabling real-time monitoring throughout the project's lifespan. This innovation saves time, conserves resources, and addresses the key drawbacks of existing testing methods.

Dr Koh Juan Wei
Chief Executive Officer

Dr Subramanian Sathyamoorthy
Chief Technical Officer

Aw You Jin Eugene
Chief Operating Officer

Low Kai En
Deputy Chief Technical Officer

Soh Jun Ming
Chief Marketing Officer

Dr Chew Soon Hoe
Advisor

Jerry Wang
Venture Architect

Alex Tay
Commercial Champion

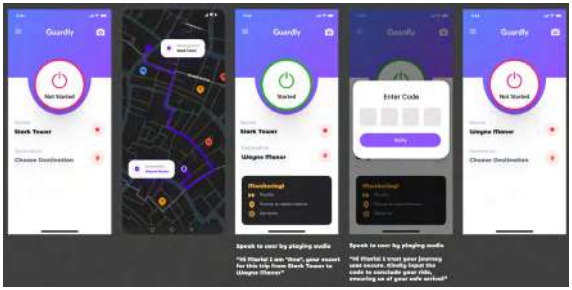
Chua Wei Sun
Technology Manager

Back to Teams

Guardly

Pocket-size Peace of Mind

Guardly is more than a safety app for women; it's a proactive, one-tap deterrence and monitoring system powered by AI. Ideal for individuals, businesses, and governments, it announces active surveillance when a user boards a vehicle, instantly detecting threats or distress. Quick to alert a response network from personal contacts to agencies, it ensures immediate aid. For governments, Guardly is a strategic partner, bolstering public safety with actionable data, shaping efficient emergency responses. It's a commitment to enhanced security, integrating deterrence with rapid assistance for community protection.



Saba Shaikh
Co-Founder / Chief Technical Officer

Valeria Duffoo
Co- Founder / Chief Executive Officer

Aryn Choong Yue Lin
Technical Advisor

Roger Cheong
Venture Architect

Niloy Mukherjee
Commercial Champion

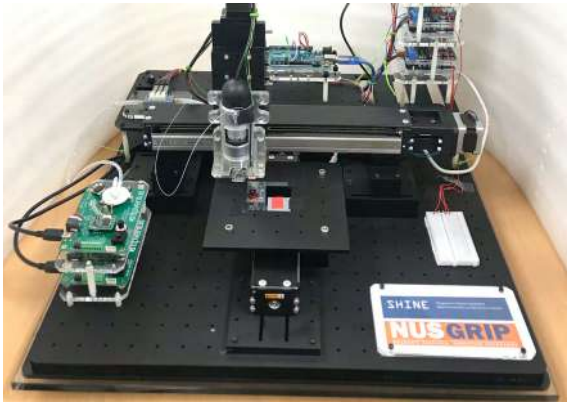
Jonathan Tan
Technology Manager

Back to Teams

Hi Transfer
enabling next generation of Heterogeneous Integration

2D/3D Heterogeneous Integration - Next Generation of Micro-transfer Technology

Technology advancement pushes semiconductor dies to be smaller, thinner, more fragile, and more compact. Conventional vacuum-based pick and place systems are only suitable for rigid components with large dimensions (>100 μm) and homogeneous materials. The first generation of micro-transfer printing (MTP) technology which is peeling rate-dependent can only circumvent a few issues from vacuum-based system. Hi-Transfer cover the gaps from the first generation of MTP and enables next generation of micro transfer technology for heterogeneous integration in semiconductor industry.



Dr Zhang Yu
Chief Technology Officer

Dr Xu Baochang
Chief Executive Officer

Professor Aaron Thean
Technical Advisor

Saw Biing Huei
Venture Architect

Peter Tan
Commercial Champion

Dr Lee Pui Mun
Technology Manager

Back to Teams

HOMEPAL

Empowering Every Care Journey

HomePal leverages technology to support seniors and their caregivers in aging societies like Singapore. Our work eases caregivers' loads and fosters independence among the elderly. Partnering with nursing homes, we're creating a privacy-preserving monitoring system with a real-time data platform that catches anomalies, like falls, and flags concerning trends, such as poor sleep patterns, early. This lets caregivers step in quickly where needed. Our aim is straightforward: a safer environment for seniors, more peace of mind for those who care for them, and a better quality of life for all.

Chen Hong Wei
Chief Executive Officer

Lai Hoi Bing
Chief Operation Officer

Cato Andre Gullichsen
Venture Architect

Derrick Lee
Commercial Champion

Cai Baoyi
Technology Manager

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A quality product by PronioBioTech

Back on Your Feet with PronioOA™

Osteoarthritis (OA) is a degenerative joint disease that affects 528 million people worldwide.

To solve the root causes of Osteoarthritis, PronioBioTech has developed a novel topical gel formulation, PronioOA™, which promotes cartilage regeneration. It achieves this through its proprietary drug delivery system that enhances targeted permeation and delivery of active ingredients.


Dr Ayca Altay Benetti
Chief Executive Officer


Ma Thinzar Thwin
Research Assistant


Associate Professor Giorgia Pastorin
Chief Scientific Officer


Associate Professor Toh Wei Seong
Scientific Advisor


Professor James Hui
Scientific Advisor


Dr Camillo Benetti
Scientific Advisor


Soh Sin En
Venture Architect


Charlie Soh
Commercial Champion


Dr Joan Sim
Technology Manager

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SENSORi
Pioneering Science, Advancing Care

Pioneering Science, Advancing Care

In hospitals and nursing homes, nurses spend too much time in vital signs monitoring due to the limitation of conventional monitoring devices. Sensori Healthcare's vital signs monitoring system - Sensori VSM, is a cost effective device that can measure 5 critical vital signs (blood pressure, blood oxygen saturation, pulse rate, respiration rate, and temperature) simultaneously via non-contact sensors quickly. Sensori VSM can be deployed on different platforms to fulfill demands of various application scenarios, providing fast, comfortable, and convenient care for patients and elder people.

SENSORI XCube
Self-service Desktop Box

SENSORI IMS
In-bed Monitoring System

SENSORI AMR
Auto Measurement Robot

Dr Wang Bo
Chief Executive Officer

Professor Guo Yongxin
Technology Advisor

Professor Teo Hock Hai
Technology Advisor

Saw Biing Huei
Venture Architect

Patrick Chua
Commercial Champion

Chia Mun Loong
Technology Manager

spacejot

Designing Captivating Realities

For Interior Designers, closing sales is a competitive and costly process, with a success rate as low as 15%. This equates to an estimated annual loss of approximately S$89,000 for each interior designer. Spacejot, an AI interior visualisation web application, addresses this issue by swiftly and automatically generating a wide array of captivating visualisations in just three clicks. This not only maximizes the likelihood of closing sales but also drastically reduces the time and effort traditionally spent on creating design proposals.

Shaun Mak
Founder & Chief Executive Officer

Nick Lee
Co-Founder & Chief Technical Officer

John Kaniyil Phillip
Venture Architect

Ignatius Khomasurya
Commercial Champion

Dr Eyoh Chih Hong
Technology Manager

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GRIP ALUMNI

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5	**MARINO SOLAR**	Floating Solar Energy for Green Ports	**18**
6	**UNOMOVE**	Provide Brain for Robotics	**19**

Cellivate Technologies

Enabling Sustainable Cell-Based Solutions to Reduce Animal-Derived Products

Cellivate Technologies is a spin-off from the National University of Singapore. We develop and commercialize proprietary products and technologies that solve the bottlenecks faced by cell based companies at different stages of the value chain. Our solutions allow them to accelerate and solidify their processes at lower costs and are translatable to different cell culture applications. As such, we have early traction in the cultivated meat, cosmetics, and leather fields.

Dr Viknish Krishnan-Kutty
Chief Executive Officer

Dr Vidya Peddada
Business Executive

Dr Phan Toan Thang
Advisor

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Test Prawn with RAPID, Profit no Limit

Forte Biotech helps farmers around ASEAN manage disease risks. Our proprietary technology makes it easy for farmers to conduct on-site PCR test to spot diseases early, allowing them adequate time to manage the disease and avoid disastrous financial implications Forte Biotech is founded by Kit and Michael and are based in Singapore with operations in Vietnam.

Kit Yong
Founder

Michael Nguyen
Co-Founder

Dr Christina Assisi
Technical Lead

Dr Ou Chung-Pei
Advisor

Colin Chua
Advisor

Back to Teams

HiCura

Hello to Smarter Care

Taking the Guesswork out of Ultrasonography

Over 90% of the neuraxial procedures (e.g. epidural, spinal anaesthesia, lumbar punctures) are performed blindly with the landmark and palpation method which has a very low first-attempt puncture success rate. HiCura can enhance patient care by improving the accuracy and success rate of the first-attempt needle insertion during neuraxial procedures from 66% to 92% with their AI-based imaging assistant – uSINE. uSINE automatically identifies spinal landmarks during an ultrasound scan in real time, guiding the clinicians to the right needle insertion spot and angle for a first attempt success.

Dr Ng Cailin
Chief Executive Officer

Dr Leng Yusong
Chief Technical Officer

Professor Alex Sia
Clinical Advisor

Associate Professor Sng Ban Leong
Clinical Advisor

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Liloss

Eating Fat With No Guilt

Eating too much high-fat food may result in weight gain and poses risks to the health. Liloss has developed a patent-pending technology to extract specialised functional ingredients from sweet potato which can mitigate fat digestion and reduce the fat absorbed into our body. The ingredients are all natural and safe for consumption. With Liloss ingredients, consumers can now enjoy delicious ice cream and potato chips guilt-free. Liloss aims to formulate the powerful ingredients into novel health supplements and functional foods.

Dr Song Zhixuan
Chief Executive Officer

Zhan Ningping
Chief Technology Officer

Professor Huang Dejian
Technology Advisor

Jerry Wang
Venture Architect

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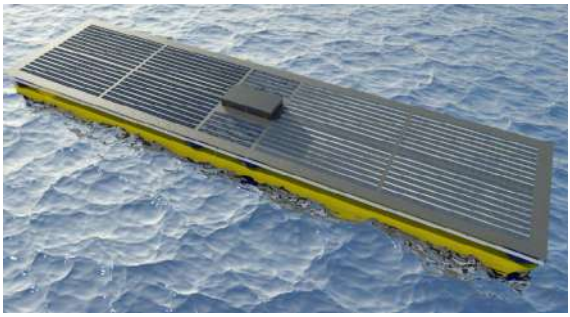
Floating Solar Energy for Green Ports

Sea ports are responsible for 1% of global emissions, with anchored vessels being significant contributors to this footprint. 80% of the world's busiest ports are in sunny regions, making floating PV solar an ideal energy source for ships at anchor. Marino Solar platform produces the solar energy at sea, powering vessels during anchorage and charging electric ships. With an integrated battery storage system and remarkable durability to withstand strong waves and wind, our platform not only boosts PV efficiency by 30% but also reduces maintenance costs significantly



Ivan Popov
Managing Director

Dr Arifeen Wahed
Cofounder

Saw Biing Huei
Venture Architect

Zhao Na
Technology Advisor

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UnoMove

Provide Brain for Robotics

UnoMove is a Singapore-based company that specializes in using pure computer vision technology to solve robot navigation problems. They offer a comprehensive navigation framework and have developed modular intelligent navigation modules, including UnoBox and UnoPilot. These products enable large-scale navigation without relying on high-precision positioning and advanced mapping, and they leverage digital twin technology for efficient modeling and low-cost navigation management.

Dr Gao Wei
Chief Executive Officer

Dr David Hsu
Non-Executive Director

Professor Andy Wang
Chief Financial Officer

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THE FLAGSHIP INNOVATION PROGRAMME

THE FLAGSHIP INNOVATION PROGRAMME
By NUS Enterprise enabling NUS postgraduate students and researchers to develop commercially viable and investible deep tech start-ups.

ABOUT NUS GRIP

Launched in October 2018, the NUS Graduate Research Innovation Programme (NUS GRIP) is NUS Enterprise's flagship innovation programme.

Based on our extensive experience working with deep technology, the programme will provide step-by-step guidance to NUS postgraduate students and researchers to cultivate deep tech entrepreneurs, to transform the university's world-class research into their own deep tech start-ups.

Twice a year, teams are selected from the best and brightest NUS researchers and postgraduate students to equip them with entrepreneurial skills and experience.

For the duration of one year, teams will undergoa transformation journey through a series of workshops, mentorships, industry linkages and incubation support, to develop commercially viable and investible deep tech start-ups. NUS will invest up to S$100,000 in start-ups demonstrating high commercial potential to accelerate their growth.

Find out more at **nus.edu.sg/grip**

Connect with the teams **grip@nus.edu.sg**

NUS ENTERPRISE

NUS Enterprise, the entrepreneurial arm of the National University of Singapore (NUS), plays a pivotal role in advancing innovation and entrepreneurship at NUS and beyond. It actively promotes entrepreneurship and cultivates global mind-sets and talents through the synergies of experiential entrepreneurial education, active industry partnerships, holistic entrepreneurship support and catalytic entrepreneurship outreach. Its initiatives and global connections support a range of entrepreneurial journeys and foster ecosystem building in new markets. These initiatives augment and complement the University's academic programmes and act as a unique bridge to industry well beyond Singapore's shores.

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