(MT5913)

by Prof Ignatius Rasiah

- Translating technology to real market needs... and commercialize them
- Each team is assigned a patented technology
 - from NUS R&D or local MNC, SME or startups

Program Information

- Tuesdays (from 12 Jan)
- 1 semester (13 weeks)
- Open to all graduate students at NUS
- 4 MCs credit
- Runs every semester



... TAKING A TECHNOLOGY TO MARKET

A 13-week programme that...



while Learning about **Engineering Leadership Skills** allows the students to...



Lawrence Bradley Seasoned Director Asia Pacific Region



Eric Loh CFO Trendlines Medical

- Meet Entrepreneurs, Leaders
- Get into Multi-Disciplinary Teams and...

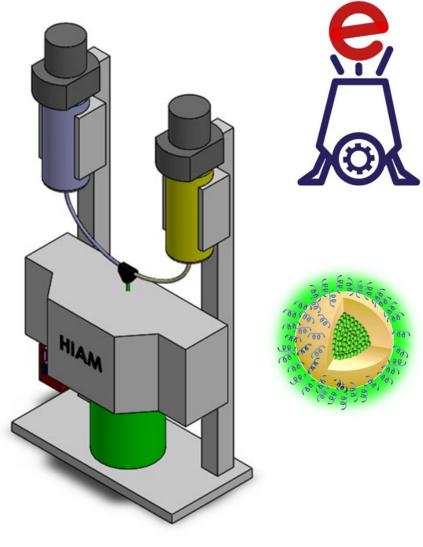
Immerse in their chosen Market Segment



Develop their own Business Model

Get Hands-on with the Technology.





... and work out the Product Design Requirements

Discuss within Teams... and figure out the Solution





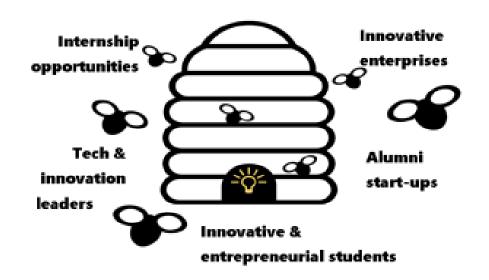
While having fun, as they develop the plans for the Startup



PRESENT YOUR PROJECTS TO INDUSTRY: R&D DIRECTORS, INCUBATORS, VC FUNDS

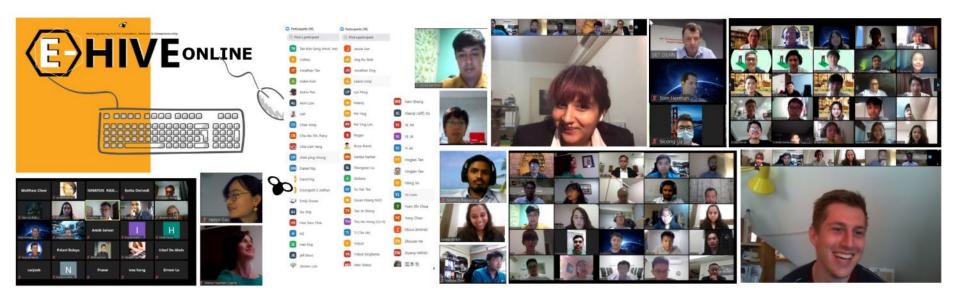


Welcome to E-HIVE!





E-HIVE — HIGHLIGHTS PITCHING, TALKS AND FUN





PAST PROJECTS

- 70+ technologies in past 5 years
- Technologies from
 - NUS (Pls, RF/RE and PhD students)
 - A*Star
 - MNCs
 - SMEs
 - Startups



















SELECTED START-UP COMPANIES BY STUDENTS FROM TECHLAUNCH

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	Tech / Business	Founder	Year	Status
Structo Empowering Dental with 3D	3D Printing for Dental Implants	Huub van Esbroeck (MOT graduate)	2014	Branches & Sales in UK, US & Asia. In Series C funding currently
ROCESO TECHNOLOGIES	Soft Robotics for Rehab & Assistance	Jane Wang (MSc in IP Mgt)	2016	Approved by FDA. Sales partners in East Asia & India. In Series A funding
FlexoSense	Flexible sensor to measure dynamic pressure and strain	Joo Chuan Yeo (PhD – NGS)	2016	Currently in Clinical Trials Seed stage with Angel Investors & Govt Grants.
MICROTUBE TECHNOLOGIES	Ultrathin tubular sensor for gaming & robotics	Yu Longteng (PhD – BME)	2018	Pre-seed stage. GRIP funded. In Product Devt
EEA	Smart phototherapy for infant jaundice	Li Shihao (PhD- BME)	2019	Clinical studies ongoing. Won pre-series A funding
breathonix	Detects lung cancer, TB, etc from the breath	Jia Zhunan (PhD – NGS)	2019	Seed stage with GRIP. Won \$50k at Slingshot
Heat—Cool Your Energy Efficiency Partner	Tech to convert heat to cooling or electricity	Fahid Riaz (PhD - Mech Engg)	2019	Product Devt ongoing. Seed stage with GRIP
Cellivate Technologies	Inorganic Thin Film to enhance cell growth	Viknish Krishnan Kutty (PhD – BME)	2019	Currently sampling to Cultured meat & stem cell companies. GRIP funded

RECENT STUDENTS & PROJECTS

Breathonix

- CEO Jia Zhunan
- COO Du Fang
- Winner of \$50k at Slingshot 2019



WISE

- TechLead Viveka
- Winner of \$50k from CIH/Lotus Foundation 360seed Funding





RECENT STUDENTS & PROJECTS

- Quantum TX BICEPS Project
 - CEO Ivan Goh
 - CTO Li Jingze
 - Featured in Straits Times in Dec 2019



- YSI South East Asia
 - CEO Irsyad Ramthan
 - Southeast Asian community that actively tackles evolving sustainability issues
 - Working with Youth from the region



TECHLAUNCH: PROJECTS FOR THIS SEMESTER



Probiotic: A cereal based Probiotic Drink from unsold surplus bread from the market

Al on the Edge: A cutting-edge software solution that minimizes the loss of an Al model's predictive powers for use in Edge devices

SUPRA: Intelligent and portable perimetry device for visual field testing in the field of Opthamology

Nano Mold: New manufacturing methods that can structure micron & nanoscale features onto a 3D molded plastic in a one shot

Widuz: Treated bamboo as a sustainable and environmentally friendly scaffolding for buildings

WHAT DO YOU GET FROM THIS MODULE?

Personal Development

- Meet and learn from guests speakers
 - CEOs, Entrepreneurs and industry leaders



- Dabble with Business functions in a safe environment
- Get actual experience of Entrepreneurship
- Learn Engineering Leadership skills
 - Leadership styles, team development, communication, etc...
- Work with the Business, Sales & Marketing
 - Discover new markets!



WHAT NEXT?....

STEP 1:

For All Students - If you are interested then:

Sign up for the course and your project by clicking on the QR code below



TechLaunch

https://nus.syd1.qualtrics.com/jfe/form/SV_5jBJIWp9mmJKA7j

Attend the first class on Zoom

MT5913 (TechLaunch)

– 6pm on 12th Jan 2021

STEP 2

For ISEM Students:

- Sign up for the course on http://www.nus.edu.sg/ModReg/
 - 1st round was open on 30th Dec and closes on 31st Dec at 5pm

For all other Students:

- Utilize the [Submit Module Requests] function to request for nonprogramme requirement modules (i.e. cross-faculty modules).
 - 2nd round is open today 4th Jan & closes on 5th Jan at 12noon
 - The request will go through a two-step approval process: it is first routed to the home department for decision before approved requests are routed to the module host(s) for final assessment
- Round 3 starts on 7th Jan at 9am & closes on 8th Jan at 12noon
- Appeals are done on the 3rd round

Q & A

For further assistance contact:

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FOR MORE INFORMATION

Please visit our IEL website: http://www.eng.nus.edu.sg/iel/

Or connect with us on

LinkedIn: https://www.linkedin.com/groups/10328061

Facebook: https://www.facebook.com/lELNUS/

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