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YOUR GIFT IN ACTION

CITYNEON HOLDINGS



A M E S S A G E F R O M U S

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Dear Mr Tan,

As we enter a new year, I extend my heartfelt thanks for your generosity towards our young university. Your support of our mission at Singapore University of Technology and Design (SUTD) in nurturing design-centric, future-ready leaders of tomorrow is inspiring.

Singapore is one of the smartest cities in the world – the smartest for the third year running, according to our recent Smart City Index co-published with Swiss business school Institute for Management Development (IMD). A holistic STEM education is essential in developing the next generation of technically grounded graduates equipped with innovative ideas and practical solutions to serve the needs of our industries and nation. As we dedicate ourselves to remaining at the forefront of technology and offering holistic programmes in both STEM education and research, your support is invaluable.

Your gift impacts the world. By enabling us to provide a world-class education and opening up a multitude of possibilities to our students, Singapore's young aspiring talent are equipped to go forth and change the world. In 2021, SUTD students, researchers and faculty made breakthroughs across a broad range of industries. From a new discovery in 2D semi-conductors to the groundbreaking development of the largest range of polymer hybrids for 3D printing, and an autonomous end-to-end solution for the highly laborious process of coral reef monitoring, your gift is what made these possible.

Because of you, we overcame the challenges of the past year and contributed to a better world by design. Buoyed by your generous support, we are ready to further strengthen our commitments to our students, our country and the world.

Thank you.

Yours sincerely,  
*Robin Chua*

## NURTURING TALENTS OF TOMORROW

### 2ND DESIGN EDUCATION SUMMIT

Jointly organized by Design Singapore Council (DSG) and SUTD-MIT International Design Centre, the second edition of the Design Education Summit was a virtual full-day event which attracted 600 participants from 15 different countries coming together to exchange the latest in design education - from best practices to teaching tools that will help nurture the next generation workforce with design sensibilities to meet the needs of the future.

The Summit highlighted the importance of design as a strategic tool to help Singapore recover from the social and economic effects of the pandemic.

### TP-SUTD PATHWAY PROGRAMME FOR TEMASEK POLYTECHNIC ENGINEERING STUDENTS

As part of efforts to increase the number of pathways to university for polytechnic students, this new through-train programme allows students to take modules taught by SUTD and jumpstart their transition to university while studying for their diploma.



## INNOVATING REAL-WORLD SOLUTIONS

### NEW DISCOVERY OF 2D SEMICONDUCTORS

A newly discovered family of two-dimensional (2D) semiconductors by SUTD researchers could pave the way for high-performance and energy-efficient electronics, applicable to mainstream electronics and optoelectronics – and even potentially replace silicon-based device technology altogether.

### GROUNDBREAKING RANGE OF POLYMER HYBRIDS FOR 3D PRINTED SOFT ROBOTICS

SUTD researchers have developed the largest range of silicone and epoxy hybrid resins for novel applications to a broad range of key sectors including the 3D printing of wearable devices, biomedical equipment, and soft robotics. Advanced fabrication approaches enabled the robust combination of materials at multiple scales and high resolutions unattainable by traditional casting or molding.



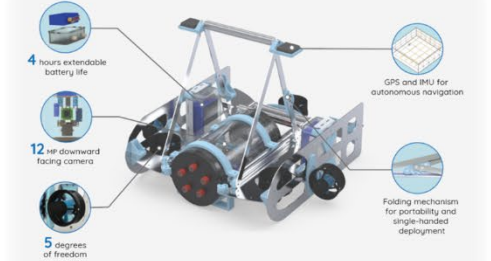
### NEW METHOD TO CREATE “FOOD INKS” FOR 3D PRINTED FRESH VEGETABLES

Beyond enabling dysphagic patients to receive adequate nutrient-rich and safe diets, 3D food printing is the next frontier of additive manufacturing, supporting innovative solutions to global issues including food security and sustainability.

## SUTD-ENTS BETTER THE WORLD BY DESIGN

### CORABOT: AUTONOMOUS CORAL REEF MONITORING

An automated and economical end-to-end solution for the highly complex and tedious problem of coral reef monitoring in Singapore, where non-ideal water conditions together with strong undercurrents and high shipping traffic hinder the use of commercial off-the-shelf reef monitoring robots.



### PLAYCUBES: MODULAR AND SCALABLE POP-UP PLAYGROUND

A pop-up playground that allows for mobility and scalability. By incorporating traditional (physical) and digital elements, it aims to cater to and enhance the overall experience of free play for the children of today.

### N'ABLE: NAVIGATIONAL AID FOR THE BLIND AND VISUALLY IMPAIRED

A device with integrated audio and haptic feedback to complement the white cane, N'Able seamlessly adapts into everyday life, improving the ability to navigate independently by informing the user about overhanging obstacles above the waist level.



### WHIZZPOD: A SEMI-AUTONOMOUS PERSONAL MOBILITY AID (PMA)

With 33.3% of Singapore's population expected to be 65 years old and above by 2050, Whizzpod is designed to empower elderly to regain independence despite limited mobility. Guided by computer vision and artificial intelligence (AI), it is programmed to identify potential "danger areas" and reduces existing problems of PMAs - by improving maneuverability in tight spaces and switching to manual operation in areas deemed unsuitable for autonomous travel.

# Cityneon Holdings – SUTD Scholarship

The Cityneon Holdings — SUTD Scholarship is established to encourage academic and learning excellence by attracting outstanding talent to pursue their undergraduate education at SUTD.

## **ELIGIBILITY**

The Scholarship is open to Singapore Citizens or Singapore Permanent Residents who

- are full-time undergraduates enrolled at the University in any year of study and in any of the following degree programmes: ASD, EPD, ESD, ISTD
- have good academic standing
- possess strong leadership potential, integrity and good character
- are active in Fifth Row (co-curricular activities) and community service involvement
- special consideration will be given for candidates with demonstrated financial need

## **BENEFITS**

- The Scholarship is valued at up to S\$15,000 per academic year and is tenable for one (1) Academic Year. Successful recipients may apply for the Scholarship in the subsequent Academic Year, subject to meeting the prevailing eligibility criteria.
- The Scholarship will be used towards the annual subsidised tuition fees (after the Tuition Grant Subsidy) and other study-related expenses.

## THE RECIPIENTS

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**Glenn Teo Wei En**  
**Senior**  
**Engineering Product Development**  
**CGPA: 3.65**

I am extremely thankful to Cityneon Holdings for this scholarship and your continued generosity and support to the SUTD community. I aspire to develop innovative products and solutions that allow individuals to best use the vast swath of technological tools available. One such product was the FocusBoard, built during my Spring 2021 30.007 Engineering Design Innovation Project. It was built to give less fortunate students a conducive environment to study while exposing them to various technological tools within the product. In my Fall 2021 Term, my team built a smart computer cooling system to optimize and extend the lifespan of older laptop devices. The award has given me further financial stability and freedom, allowing me to pursue such projects in both academic and professional spheres with greater confidence and risk appetite.

Moving forward, I aim to complete my undergraduate education with the same creativity and impact-driven focus, serving as an example to my juniors and allowing technology to be more accessible for everyone. My family and I thank Cityneon Holdings for providing me with this wonderful opportunity.



# THANK YOU

CITYNEON HOLDINGS

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YOU MAKE AN IMPACT  
IN OUR STUDENTS' LIVES.