

Sin Yi Gianni HEUNG

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► Personal Statement

I am a passionate trilingual, first class engineering leader in electronics embedded systems. I have led many projects with engineers across the world, projects were cooperated with National Aeronautics and Space Administration (NASA) and European Space Agency (ESA).

My goal is to lead a global team to develop different innovations solving world problems. For example, external skeleton that supports and protects human actions, which can be used in rescuing in natural disaster. I believe that soft attitude like public speaking and teamworking is the key for successful CEO.

► Educations

Sep 2017 – Jun 2019 University of Hong Kong

Master of Electronic and Telecommunication Engineering

Project: Electronic lead of Dynamic solar tracking algorithms.

Sep 2014 – Jun 2017 University of Sheffield

Bachelors of Electronics and Communication Engineering (First Class Honor)

Projects: Solutions design and optimization of Bragg Reflector in communication, Engineer you are hired Program, Global Engineering Challenges Program.

► Work Experiences

Sep 2019 – Present Realtek Semiconductor Corp. System Architecture Engineer

Design and test integrated circuit chips using Artificial Intelligence (AI) image recognition.

Developed benchmarking software using Matlab and Python to verify system performances.

Feb 2019 – May 2019 Hong Kong Telecom Junior Engineer

► Space Related Awards and Competitions

2020 Sheffield University Nova Satellite (SUNSat) Electronic team member and adviser

Cubesat mission to validate and investigate the performance and organic solar cells solar cells in space.

Advising for the application process and team timeline. [\(Details\)](#)

2019 Electrical and Electronic Engineering top dissertations of the year Scholarship

2019 Young Professionals Exhibition and Competition Postgraduate Section by The Institution of Engineering and Technology Champion

The biggest student engineering showcase in Hong Kong for the student to exhibit their engineering and technology innovation in project presentations, more than 100 teams from 10+ institutions. [\(Details\)](#)

2019 European Space Agency Academy Concurrent Engineering Workshop Participant

Work in a lunar orbit mission to capture a image of the back of the moon.

Providing the calculating and estimation of power and electronic mass budget.

2018 NASA Balloon Program Office (BPO) and the Louisiana Space Consortium (LaSPACE) Supported High Altitude Student Platform (HASP) Electronic Team leader

I have led the electronic designs and working timeline. Ensure team safety dealing with 35 voltage power supply and wires connections. Developed working procedure for collecting results. ([Details](#))

2018 The 2nd Symposium on Space Educational Activities Author of Conference Paper

2018 Extra-ordinary Scholarship from Croucher Foundation

The Croucher Foundation is an independent private foundation established by the late Noel Croucher to promote the standard of the natural sciences, technology, and medicine in Hong Kong. ([Details](#))



Figure 1 - Project Sunbyte launched with HASP

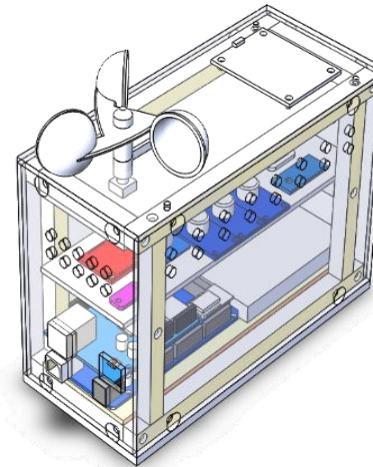


Figure 2 - CAD illustration of the sensor Hub

2018 German Aerospace Center (DLR) and the Swedish National Space Agency (SNSA) collaboration with the European Space Agency (ESA) Rocket and Balloon Experiments for University Students (REXUS/BEXUS) Participant

2016 Sheffield Industrial Projects Scheme with Rolls Royce Team Member

Research and prototype for validation and verification of overcurrent protection using a Hall effect sensor on future aircraft Engines.

► Business Awards and Competitions

2019 Entrepreneurship and Maker Skills Integrator MIT HK Innovation Node Participant

Preventing and reducing annual incidence of Toxic Shock Syndrome from 9 case per month to none. Developing a demonstration product "Tamplus" using UHF RFID technology.

2018 Urban Flows Observatory sensor competition sponsored by Siemens, Autodesk, and Arup Winner

Revolution sensor hub solution capturing environmental data, ad-hoc sensor suit.

Provide IOT solution to test and capture sensor efficiency, accuracy & robustness. ([Details](#))

2018 Entrepreneurship Academy The HKU Innovation & Entrepreneurship Hub Participant

► Reference

Dr. Wilton Fok

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Dr. Wie Lu

Undergraduate Supervisor

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