


# Sin Yi Gianni HEUNG

 (+65) 82340621

 gianniheung@gmail.com

 [www.linkedin.com/in/gianniH](http://www.linkedin.com/in/gianniH)



## 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

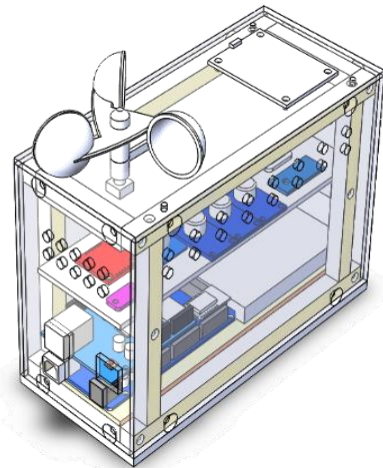


Figure 2 - CAD illustration of the sensor Hub

**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

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**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

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**Dr. Wilton Fok**

Master Supervisor  
Assistant Dean, Faculty of  
Engineering, The University  
of Hong Kong, Hong Kong  
Email: [wtfok@eee.hku.hk](mailto:wtfok@eee.hku.hk)

**Dr. Wie Lu**

Undergraduate Supervisor  
Sensor Lecturer, Department of  
Electronic & Electrical  
Engineering, University of  
Sheffield, United Kingdom  
Email: [w.liu@sheffield.ac.uk](mailto:w.liu@sheffield.ac.uk)

**Dr. Viktor Fedun**

Project academic advisor  
Senior Lecturer, Control &  
Systems Engineering University  
of Sheffield,  
United Kingdom  
Email: [v.fedun@sheffield.ac.uk](mailto:v.fedun@sheffield.ac.uk)