

Hon Kwan Allan Lee

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EDUCATION

Imperial College London MEng Biomedical Engineering **2018-Present**

- Solid Mechanics; Fluid Mechanics; Heat and Mass Transport System; Thermodynamics and Kinetics; Programming(C, C++); Digital Logic; Signals and Control Processing; Electrical Engineering; Medical Science; Maths; Electromagnetics, Vibrations and Waves

La Salle College Secondary School **2012-2018**

EXPERIENCE

Hong Kong Applied Science Technology and Research Institute **Jul 2020-Aug 2020**

Research and Development Summer Intern, Integrated Circuit and Systems

- Designed and implemented a system which uses the near infrared camera to capture heart rate remotely with a focus on facial recognition and analysis
- Created algorithm with OpenCV and Tensorflow, with implementation of rPPG and FISTA

Imperial College London **Jul 2020-Sept 2020**

Researcher, Undergraduate Research Opportunities Programme, Dr. Christopher Rowlands

- Designed and manufactured micro-fluid chip for drug delivery which also enables mixing of drugs of different grid by using the principle of heat actuation
- Proposed a circuit design for the heat actuation with OrCAD system and had hands on insight with the software LabView

EXTRACURRICULARS

Treasurer, City and Guilds College Union (Imperial College London) **Aug 2020-Present**

- Handle £100k in transactions for Imperial Engineering Student Union of 4K+ students for planning of campus-wide events; Overlook £600k+ from 8 departmental societies (Computing, BioEng etc)

Treasurer, Imperial College London Bioengineering Society **Aug 2019-Aug 2020**

- Organised social, industrial and wellbeing events for 800+ undergraduates for the Department of Bioengineering

Treasurer, La Salle College Student Association **Sep 2016-Aug 2020**

- Handle £500k in transactions for the secondary school student union of a total of 1200+ students for planning of campus-wide events

SKILLS

Languages — Native in English, Cantonese; Fluent in Mandarin Chinese, familiar with Java, Javascript, C++, Python

Technologies — Experienced with Git, Google Cloud Platform, Solidworks, OrCAD; familiar with Unix/Linux/macOS;

ACHIEVEMENT

HealthHack Gaming Category Winner (Imperial College London) **February 2020**

Best Devotion to School (South China Morning Post) **Jul 2018**

Good Lasallian Student Award (La Salle College) **May 2018**