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 student union of secondary school, with 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; familiar with Unix/Linux/macOS; experience with Google Cloud Platform, Solidworks, Matlab, OrCAD

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