

# Hon Kwan Allan Lee

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Flat 4, 22 East Castle Road, Edinburgh EH10 5AR, United Kingdom

## EDUCATION

### Imperial College London

MENG BIOMEDICAL ENGINEERING  
Sept 2018- July 2022 | United Kingdom  
First Class Honours

### La Salle College

HONG KONG DIPLOMA OF  
SECONDARY EDUCATION (HKDSE)  
Sept 2012 - June 2018 | Hong Kong  
Maths(5\*\*), Physics (5), Chemistry (4)

## SKILLS

### Programming

VBA  
C++  
MATLAB  
Python  
JavaScript

### Tool

IG-XL  
JMP  
Solidworks  
Git  
Mentor Graphics  
Cadence Virtuoso  
LabView  
LTspice  
Microsoft Office

### Language

English  
Cantonese  
Mandarin

## ACHIEVEMENTS

FCGI Centenary Award - City and Guilds of London Institute (2022)  
Outstanding Service Award - Imperial College Union (2022)  
Presidents Award - City and Guilds College Union (2022)  
HealthHack Gaming Category Winner - Imperial College London (2020)  
Best Devotion to School - South China Morning Post (2017)

## LINKS

<https://allanlee.uk>  
<https://www.linkedin.com/in/allan-l-3035a4135/>  
<https://github.com/honallanlee>

## EXPERIENCE

### Product Test Engineer | CIRRUS LOGIC

Sept 2022 - Present | Edinburgh, United Kingdom

- Worked on wearable health and general market mixed signal products
- Design innovative multi-sites hardware and software solutions to achieve low test time and minimise production costs
- Optimise and monitor production yield
- Develop robust and precise ATE characterisation and qualification solutions
- Collaborate with IC design engineers to define test methodologies and lead design for test efforts pre-silicon

### R&D Summer Intern, Integrated Circuit and Systems | HONG KONG APPLIED SCIENCE TECHNOLOGY AND RESEARCH INSTITUTE

Jul 2020 - Aug 2020 | Hong Kong

- Conducted a project with the largest government-funded R&D centre in Hong Kong for applied science and engineering as a paid summer internship role
- 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 an algorithm with OpenCV and TensorFlow, with implementation of rPPG and FISTA

## PROJECT

### Smart "Squeezable" Sensor: Powering and sensing of stretchable conductors for Wearable Device | IMPERIAL COLLEGE LONDON

Sept 2022 - July 2022 | London, United Kingdom

Worked with Dr. Firat Güder

- Analysed the electrical characteristics of nano-porous Si-Cu composite
- Designed circuitry for powering and sensing of the CB-PDMS/Cu-pSi sensor
- Implemented a DAQ system relaying information of the sensor to the user quantitatively and graphically

### Microfluidic Blood-Brain Barrier Chip for Glioblastoma Multiforme ImmunoPET Radiotracer Development | IMPERIAL COLLEGE LONDON

Sept 2021 - June 2021 | London, United Kingdom

Worked with Dr. Sam Au

- Developed an in vitro microfluidic device to replicate the blood-brain barrier's selective permeability to immunoPET radiotracers
- Designed and fabricated microchannels with endothelial cell culture, a collection reservoir, and a immunoPET photodiode sensing system.

## POSITION OF RESPONSIBILITY

### Honorary Treasurer & ex officio Director | CITY AND GUILDS COLLEGE ASSOCIATION

July 2023 - Present | London, United Kingdom

### Treasurer | CITY AND GUILDS COLLEGE UNION

Aug 2020 - July 2022 | London, United Kingdom

### Undergraduate Teaching Assistance | IMPERIAL COLLEGE LONDON

Sept 2021 - June 2022 | London, United Kingdom