

Chau, Yan To

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## EDUCATION

### **Imperial College London - MEng Electrical and Electronic Engineering — 2019-**

Modules taken, with relevant details shown within (brackets):

Year 1 (Upper Second Class Honours) - Analysis and Design of Circuits (Analogue Circuits, Semiconductor devices), Digital Electronics and Computer Architecture, Electronics Design Project, Mathematics, Waves, Communications 1, Programming for Engineers

Year 2 (overall grade pending) - Mathematics, Signals and Systems, Electromagnetism, Circuits and Systems, Power Electronics, Control Systems, Communications 2

## WORK EXPERIENCE

### **Engineering Internship at OrigamiLabs — Sep-Dec 2020**

- Participated in the deployment of OFLO, a screen-free alternative for communication in teams; this includes performing quality assurance tests for products, assisting the user in adopting OFLO, and performing data analysis for deployment statistics,
- Worked with the startup's internal engineering team on researching and building the iOS version of the enterprise mobile application on the Flutter platform.
- Kickstart and create the first usage data analysis template to generate useful customer insights, and to improve customer service

### **Engineering Assistant (Internship) at Majestic Engineering (FSEE) — Jul, Aug 2020**

- Investigated and dealt with the various technical specification documents involved during the early stages of a project, such as employer requirements and room data sheets,
- Used Autodesk AutoCAD for amending schematics and drawings,
- Utilised Excel VBA to organise records of materials for submission to consultants.

## AWARDS

### **Imperial College Alumni Association Hong Kong (ICAAHK) Scholarship — 2019-2020**

Awarded to 3 outstanding students who are commencing their first year at Imperial College.

## PROJECTS

### **Imperial College DocSoc (Computing Society) Hello World Hackathon - Mar 2021**

- Collaborated with 4 students on a web app called "[cook.io](https://cook.io)", built with HTML, CSS and node.js, and designed to connect people with passions for cooking.
- Awarded second for "Most Helpful Hack" category sponsored by NextJump.

### **Panxcel: A python discord scoreboard bot - Autumn 2020**

- A bot built with Python's Pandas data frame package, designed to keep simple scoreboards within discord server conversations.
- Certified on [top.gg](#), the largest community for discord bots.

### **Wheels: An cross-platform compatible app - Summer 2020**

- Built with Google's Flutter platform, which allows development simultaneously for iOS and Android; powered by APIs from multiple bus operators in Hong Kong;
- Conducted in depth research on the current state of ETA (expected time of arrival) data transparency in Hong Kong, documented within my [blog](#).

### **Imperial College Robotics Society SumoBot Competition - 2019-2020**

- Collaborated with 5 students on a "sumo" robot capable of pushing opponents off the arena.
- Mainly worked on the circuitry of the robot and tested it against various given requirements.

### **KMB Vacant Seat Detector Installation Project — 2017-2019**

- Previously awarded first runner up in the Hong Kong Student Science Project Competition
- Designed and manufactured the vacant seat detector project prototype on a double-decker donated from local bus operator KMB; made visits to the depot to implement the prototype, and to work with technicians to optimise our implementation of the prototype.
- Promoted this project and various STEM activities to other members of the school community.

## **OTHER EXPERIENCES AND VOLUNTEERING**

- Secretary at the Rail and Transport Society of City & Guilds College Union — 2020-2021
- Training Manager at Imperial College Robotics Academy — 2019-2021
- Student volunteer at the Ffestiniog and Welsh Highlands Heritage Railway — Dec 2019
- Volunteer for the Chickensoup Foundation English Tutoring Programme — Autumn 2017

## **RELEVANT SKILLS**

- Competent use of C++ for programming, Verilog and Intel Quartus Prime for computer architecture, as well as SPICE for analogue circuit analysis — all of which are frequently adopted within various modules of my Year 1 curriculum,
- Competent use of MATLAB— Heavily utilised it for various coursework assignments in my Year 2 Electromagnetism, Signals and Systems, Control Systems and Power modules.
- Competent use of Python and its various data science packages, used in my personal projects,
- Highly familiar with CAD software, including Autodesk AutoCAD and Fusion 360,
- [My Github repositories](#)

**References available upon request**