Chau, Yan To

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EDUCATION

Imperial College London - MEng Electrical and Electronic Engineering — 2019-2023

- Modules taken in Year 1 and 2: Analysis and Design of Circuits, Digital Electronics and Computer Architecture, Mathematics, Communications, Programming, Signals and Systems, Electromagnetism, Circuits and Systems, Power Electronics, Control Systems.
- Achieved 2:1 (67.48%) in Year 1, First Honours (73.88%) in Year 2.

WORK EXPERIENCE

Business Relations Intern at VoltShare — Jul-Sep 2021

- Worked with our venture capitalist mentor to conduct market research, and to obtain insights for tailoring the right message for our business and domestic customers.
- Composed a series of white-paper articles, to promote VoltShare as a thought leader among sustainable businesses and in the EV industry.

Engineering Internship at OrigamiLabs — Sep-Dec 2020

- Collaboratively developed an iOS version of the enterprise mobile application with Flutter.
- Kickstarted a data analysis template for customer insights.
- Assisted trial and deployment for OFLO's clients.

Engineering Assistant (Internship) at Majestic Engineering (FSEE) — Jul-Aug 2020

- Made amendments to specification documents submitted by clients, such as employer requirements and room data sheets, and utilised AutoCAD for amending schematics.
- Developed a library of Excel VBA macros and functions to organise records of materials; this is used for submission to consultants and the site contractor.

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

Electronics Design Project 2: Mars Rover – Apr-Jun 2021

Collaboratively developed a Martian Rover that autonomously tracks obstacles, manages its battery via a management system, and controlled via a remote client.

cook.io: Bonding over Cooking - Mar 2021

Collaboratively developed “cook.io" during the Imperial College DocSoc (Computing Society) Hello World Hackathon. Awarded second for “Most Helpful Hack” category by NextJump.

Panxcel: A python discord scoreboard bot - Autumn 2020

A top.gg certified discord bot, built with Python's Pandas data frame package, designed to keep simple scoreboards within discord server conversations.

Wheels: A cross-platform compatible app - Summer 2020

Motivated from my research on the current state of ETA (expected time of arrival) data transparency in Hong Kong (documented within my blog), I built Wheels on Google's Flutter Platform, powered by APIs from multiple bus operators in Hong Kong.

Electronics Design Project 1: Circuit Simulator- Apr-Jun 2020

Collaboratively developed a C++ command-line circuit simulator that can evaluate nodal steady-state and transient values of SPICE-defined circuits.

Imperial College Robotics Society SumoBot Competition - 2019-2020

Collaboratively created a "sumo" robot capable of pushing opponents of the arena. Mainly worked on the circuitry of the robot and test benchmarking.

KMB Vacant Seat Detector Installation Project — 2017-2019

- Collaboratively developed the vacant seat detector project prototype, and awarded first runner up in the Hong Kong Student Science Project Competition.
- Manufactured the prototype on a double-decker donated from KMB (local bus operator), with guidance from technicians at the depot.

OTHER EXPERIENCES AND VOLUNTEERING

- Chair at the Rail and Transport Society of City & Guilds College Union — 2021-2022
- Secretary at the Rail and Transport Society of City & Guilds College Union — 2020-2021
- Volunteer and training Manager at Imperial College Robotics Academy — 2019-2022
- 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 and 2 curriculum.
- Competent use of MATLAB— Heavily utilised it for 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 HTML, CSS and react.js, used to develop my personal website.
- Highly familiar with CAD software, including Autodesk AutoCAD and Fusion 360,
- My GitHub repositories

References available upon request