

Education

Imperial College London

Dyson School of Design Engineering 2018 - 2022

MEng Accredited by the IED, the IET, and the IMechE
(2:1 Upper Second Class)

Modules Include: Design, Mechanics, Electronics, Engineering Mathematics, Computing, Production and Materials, Gizmo: Physical Computing, Energy in Design (Thermofluids), Big Data, Engineering Design Project, Enterprise Roll Out, Sensing and IoT, and Audio Experience Design.

Christian Alliance International School (CAIS), HK 2011 - 2018

Alberta High School Diploma (High Honours): Mathematics 30-1 (93%), Mathematics 31 (96%), Physics 30 (91%), Art 30 (91%)

Projects

Connect: Explore

*Expert's Pick in the London Design Biennale

Explore is a device and system to create an independent museum experience for blind visitors.

- Conducted primary, secondary, and tertiary research, on subject matters such as the competitor market, interviews with a blind user, opportunity areas, and compliance with EU legislation and international standards
- Developed concepts and physical prototypes
- Presented idea with slides, and performed voiceover in pitch video

Tuntre

Tuntre is a concept start-up company with the core objective of improving the plant care or "plant parenting" experience.

- Designed and prototyped a 3-in-1 watering tool in a group
- Performed extensive market research and conducted stakeholder interviews
- Presented start-up and business plan through a website, created product video
- Managed social media page

Electrochromic Day Shapes

*Joint first place in Imperial College DesSoc Makeathon

This was a one day makeathon concept design using electrochromic glass as a permanent day shape fixture as an alternative to hoisting.

- Performed ideation in a group
- Used Solidworks to CAD model, render and perform FEA simulation on concept
- Presented idea in a video

Experience

Ocean Infinity (Design Engineering Intern)

Apr 2021 - Sept 2021

Six month design engineering placement at a marine robotics company.

- Learned and practiced model based systems engineering
- Designed and prototyped a novel, mechatronic, remotely operated flag signalling system for remotely operated marine vessels

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Skills

Soft Skills

Please see Extracurricular Activities for examples of soft skills such as: leadership, team work, and interpersonal skills

Design Software

Proficient with **Adobe Suite**, particularly with **Illustrator** and **InDesign**

Proficient with **Solidworks**, for 3D modelling and FEA Analysis

Design

Proficient at **Rapid Prototyping**, including **3D Printing**

Experience using laser cutters, and workshop equipment

Coding

Proficient in **Python**, **C++**, **HTML**, **CSS**, and **Arduino IDE**, with experience using **Matlab**, **C#** (in Unity) and **Javascript**

Productivity & Office Software

Proficient with **Microsoft Office 365**, with experience using

Teams and **Outlook** for project management, and regularly

using **Excel** and **Excel formulas** for personal account keeping

Proficient with **Google Workspace**

Media Software

Proficient with **Blender** for 3D modelling and basic animation

Proficient with **Adobe Suite**, particularly with **Premiere Pro**

Languages

Native **English** speaker with conversational skills in **Cantonese** and **Mandarin**

Extracurricular Activities

Volleyball (Player, Assistant Coach, and Referee)

2016 - Present

- Qualified Volleyball England Grade 4 Referee
- Helped coach and run trainings for CAIS in the summers of 2018 and 2019, as well as ICVC beginner sessions in 2021-2022.
- In 2022, I helped organise and host an 8 team (~90 person) volleyball tournament in London for the Hong Kong Societies at universities in the UK.
- Played on various teams (CAIS U20 (ISSFHK), Imperial College Chinese Society team, ICVC (Imperial College Volleyball Club) Mixed team, and ICVC Men's First (BUCS Premiere South)
- Currently playing for Malory Eagles Volleyball Club in their London League Division 1 Team.

Glow in the Dark (Student Group for Christian Ministry at CAIS) (Member and Student Leader)

2013 - 2018

- Led worship and worship team during school chapels and events
- Planned and led activities with co-leaders on outreach trips to China, teaching English to middle-school students and inviting them to church