

## 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)

### Christian Alliance International School (CAIS), HK

2014 - 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 market research, interviewed a visually impaired stakeholder, and researched 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
- Performed extensive market research and conducted stakeholder interviews
- Presented start-up and business plan through a website, created product video

### Electrochromic Day Shapes

\*Joint first place in Imperial College DesSoc Makeathon leading to placement offer

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

- Ideation and concept selection
- Used Solidworks to CAD model, render and perform FEA simulation on concept
- Presented idea in a video

## Experience

### Steeldeck (Freelance Designer) May 2023 - Present

R&D for updating old product lines and designs to lower manufacturing costs using modern manufacturing methods.

### 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

### Design Software

Proficient with **Adobe Illustrator** and **InDesign**

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

Proficient with **Blender** for 3D modelling

Proficient with **Figma**

### Design

Experience with **FDM 3D Printing** and **Rapid Prototyping**

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 using **Microsoft Teams** and **Outlook** for project

management, and regularly using **Microsoft Excel** for

personal account keeping

Experience using **Asana** for project management

### 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 and 2023, I helped organise and host 8-10 team (~100 person) volleyball tournaments in London for the Hong Kong Societies at universities in the UK.
- Played on various teams - CAIS U20 (ISSFHK), ICVC Men's First (BUCS Premiere League)
- 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
- Planned and lead activities in CAIS annual Gospel camp

## Other

### Greenwich Youth for Christ (Volunteer Youth Worker)

Jan 2023 - Present

- Supervisor for teenagers at a Youth Drop-in club in Woolwich

### FAA Level 3 Award in Emergency First Aid at Work (RQF)

Mar 2023 - Mar 2026

- FAA Qualified first aider