

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, 3D modelling and generating Engineering drawings using Solidworks

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
- Stakeholder engagement for product development

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Portfolio: jonathanjamestang.com

Skills

Design Software

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

Proficient with **Solidworks** for solid and surface modelling

Proficient with **Blender** for 3D modelling and rendering

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**, **Arduino IDE**, and

ReactJS (see portfolio website) experience using **C#** in **Unity**

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 organised and co-hosted 8-10 team (~100 person) volleyball tournaments in London for the Hong Kong Societies at universities in the UK, sponsored by Vitasoy.
- Played on various teams - CAIS U20 (ISSFHK), ICVC Men's First (BUCS Premiere League), Malory Eagles Volleyball Club (London League Division 1).

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