

## EDUCATION

**Imperial College London** *Class of 2022*  
75% (1<sup>st</sup> Class Hons) MEng Civil Engineering

**Concord College** *Class of 2018*  
A-levels: A\*A\*A\*A\*A and GCSEs: 11 A\*s  
○ A-levels: Maths, F. Maths, Physics, Chem, EPQ.  
○ 6 Gold Awards in Olympiads and Challenges.

## VOLUNTEERING

### Founder & Treasurer – Project Comoros

*Jan 20 to Present / Imperial College London*

- Manage finances of the project, including estimating costs and budgeting for expenses.
- Aim to fundraise, design and construct a community school in Comoros.

### Site Assistant – FFWHR Boston Lodge

*Dec 19 / Ffestiniog and Welsh Highlands Railway*

- Assisted the installation of new power cables and pairs of reused steel railway tracks.

### Teaching Assistant – London Nautical Sch

*Oct 18 to March 19 / Pimlico Connection*

- Volunteered weekly for the scheme teaching a class of 6 disadvantaged students.

### Fundraiser Coordinator – EboTown Project

*Sept 18 to April 18 / Vinspired Charitable V50 Award*

- Raised £6000 through second-hand book sales.
- Provided 105 children 2 years of education.
- Introduced e-payments and competitive pricings.

## INTERESTS

- AutoCAD
- MS Office
- Ps/Lr/Ai
- Tekla
- Rhino3D
- Matlab
- WordPress
- HTML/CSS
- Python
- Java
- Webdesign
- Flying
- Piano
- Snooker
- Archery

## EXTRACURRICULAR

### Chair – IC Rail and Transport Society

*Aug 19 to July 21 / Imperial College London*

- Refreshed society branding through a new Instagram and modern **HTML** website.
- Boosted membership numbers by 56%.
- Secured external sponsorship of £450.
- Initiated new events between universities.

### Head Prefect (Marketing)

*Sept 17 to June 18 / Concord College*

- Created new Instagram @humansofconcord.
- Editing using **Photoshop** and **Lightroom**.
- Organised college tours and blog posts.

### Founder – Business and Finance Society

*Jan 17 to June 18 / Concord College*

- Initiated debates on complex global issues.
- Inspired 60 peers with a TED-style talk on *Why bridges stand* from unique perspectives.

### 2-year Research Project – NASA Radio Jove

*Jan 17 to June 18 / Concord College*

- Self-assembled a dual-dipole array radio telescope
- Analysed IO-induced decametric emissions.

## EXPERIENCE

### Spokesperson and Ambassador – Proprep UK

*July 2020 to Present*

- Represent Proprep in journalistic interviews with newspapers and radio stations.
- Enhance engagement with prospective students, professional bodies and local businesses.
- Initiate onsite marketing events and social media activities, e.g. Instagram live.

### Intern Structural Engineer – GEARED Consulting

*June 2020 to Oct 2020*

- Assist the development of a bespoke graduate mentorship programme, designed to bridge the gap for university graduates and provide a fast track for skills development.
- Develop structural framing and technical drawings for domestic projects, e.g. loft conversions and side extensions, by hand calculations, **Tedds** and **Revu**.

### Developer – Harlow Design

*July 2020 to Present*

- Manage programme roadmap and project contracts in line with strategic objectives.
- Design websites using **WordPress** such as GEARED and LBS Conference.

### Remote Internship Experience – Bright Network

*June 2020 to July 2020*

- High-level product management for developing facial verification in a mobile banking app.

### Intern Structural Engineer – Curtins Consulting

*Dec 2019*

- Designed preliminary frame for a Countryside low-rise by hand and **Telka** modelling.
- Identified key structural works for Roehampton University redevelopment.
- Suggested to the client risk assessments and mitigation strategies efficiently.

### Intern Civil Engineer – BWB Consulting

*July 2019*

- Developed design and completed technical drawings and details (**AutoCAD**) of drainage, levels, joints layout, earthworks for DP World London Gateway plot 4020B.
- Optimised drainage performance using advance modelling in **MicroDrainage**.
- Drafted the site inspection report and key solutions with plot 1080 site manager.
- Completed access road alignment and vehicle tracking for Panattoni Park in **Civil3D**.
- Introduced to basic traffic flow simulation on **Vissim** and **Linsig3**.

### Imperial College Outreach Ambassador (STEM Mentor)

*Jan 2019 to Present*

- Worked with students via online support, face-to-face masterclasses and study days.
- Have 200+ hours of experience in one-to-one tutoring and group mentoring lessons.
- Underlined test-taking strategies for the new and more challenging specifications and encourage extension questions to fully prepare candidates for the A\* grade.
- Challenged students to problem-based discussions which helped students consolidate and learn new concepts more efficiently and creatively.

## COURSEWORK

### Finite Element Incremental Structural Analysis / A+

*Jan 2020*

- Adopted object orientated programming using **Matlab** to investigate plastic collapse mechanism of a complex 2D frame structure, using incremental elastic analysis.

### Offshore Oil Rig Structure Design Group Project / A

*Jan 2020*

- Produced advanced design calculations using **Python** on wave and current induced load and moments on columns and bracings, using Morrison equation.

### Astana City Planning Group Project / A+

*Dec 2019*

- Created collaboratively an adaptive modular masterplan and **AutoCAD** model outlining a 50-year development plan that supports unprecedented growth and secure optimal benefits.
- Proposed an all-in-one smart system, demand-responsive transport network, innovative waste management, drainage, energy systems and water resources.

### Pembrokeshire Surveying and Road Planning Project / A\*

*May 2019*

- Used specialised equipment for traversing, levelling, detail mapping, and setting out.
- Recognised for outstanding team management and exceptional work.
- Developed hand-drawn scaled map, road planning, environmental appraisal and earthworks.

### BuroHappold Battersea Redevelopment Group Project / A

*Jan 2019*

- Produced collaboratively a sustainable transport scheme suggesting self-driving pods, new green transport hub, and rerouting Crossrail 2 to improve bonding of community.
- Implemented innovative technologies, e.g. exquisite rain collecting roof and piezoelectricity.
- Optimised the division of functions and demonstrated using scale models and sketches.