
Education

MEng Aeronautical Engineering with a Year Abroad

2020 - 2024

Imperial College London | Massachusetts Institute of Technology (final year)

- Achieving results equivalent to first class honours (77% weighted average), consistently in the top 10% of cohort
- Conducting a Masters' project to develop a computational lightning strike model for unconventional aircraft
- Sponsored by the Institution of Mechanical Engineers (IMechE) 'James Clayton' Undergraduate Scholarship
- Experienced a variety of teaching methods by cross-registering at Harvard University

A-Levels in Maths, Further Maths, Physics, Product Design (A*, A*, A*, A*)

2018 - 2020

Peter Symonds College, Winchester

- Grade A* Extended Project Qualification evaluating ion propulsion technology for future air and space transport

Experience

Summer Intern, Simulation & Modelling

06/2022 - 08/2022

MBDA Missile Systems, Stevenage

- Delivered a creative solution to a challenging project exploring methods to protect company IP
- Contributed in daily stand-up meetings to strategically review ongoing work items
- Produced documentation on two individual projects and presented in a monthly, department-wide meeting

Undergraduate Research Opportunity

06/2021 - 08/2021

Imperial College London, Department of Aeronautics, Dr Sylvain Laizet (Supervisor)

- Completed a research project on 'GPU Parallelisation of a 2D Navier-Stokes Solver'
- Successfully learnt, implemented, and evaluated the efficacy of a novel C++ framework called SYCL
- Executed verification studies on cloud-based, high-performance, heterogeneous computing clusters
- Produced a report outlining reflections on the strategic value of the framework for high-performance computing

Lead Aerodynamics and Simulations Engineer

10/2020 - 07/2023

Imperial College London Rocketry, Altitude Record Team

- Approached ESTECO and negotiated a sponsorship deal, acquiring licenses to industry-leading software
- Integrated several engineering workflows into modeFrontier and performed multidisciplinary optimisations, contributing to successful attempts to break UK rocket altitude records
- Delivered a lecture introducing team members to fundamentals of computational fluid dynamics

Secret Shopping Agent

03/2022 - 07/2023

Centrebound, London

- Conducted and reported on 'secret shopping' assignments relating to ID verification and customer service
- Recognised for high-quality reporting and asked to produce written and video marketing content for the company

Duty Manager

03/2020 - 01/2021

The Food Warehouse, Basingstoke

F1inSchools Alumnus, Judge, and Event Volunteer

2017 -

- Achieved 5th place at the 2017 World Finals in Kuala Lumpur, Malaysia, out of 51 global teams
- Inspire the next generation of engineers by mentoring current teams in engineering and professional skills
- Volunteered at regional, national, and world finals since 2019