Ben Eze

Tel: +44 7443 600 974 LinkedIn: https://www.linkedin.com/in/ben-eze-5a41661ba Email: benedicteze@gmail.com

Motivated and consistently top-ranking 3rd year Aeronautical Engineering student at Imperial College, seeking practical experience in engineering within research. Skilled in Python and C++, using coding to enhance understanding in aerospace and machine learning.

KEY SKILLS

Self-motivation

Driven to better understand the physics behind fluid dynamics, researched and developed an interactive 2D fluid simulation from first principles, comparing different methods for stability and accuracy. Branched out into machine learning; developed programmes for self-driving with genetic algorithms, image classification with convolutional neural nets, and text generation using transformers.

Collaboration

Through a research project and internship, learned how to efficiently work on large-scale projects through Git and ensure project maintainability. Applied these lessons and methodologies when working on group projects at university.

Leadership

President of the university Ice Hockey Club and former Social Secretary. A focus on intra-club cohesion and clear communication has significantly improved turnout at socials and trainings, increasing the enjoyment and financial sustainability of club activities.

Communication

Through 300+ hours of experience tutoring mathematics to young people with varying learning styles and abilities, have honed the ability to simplify complicated ideas into their key points. Enjoy motivating a thorough understanding of topics over memorizing formulae. Students consistently share their newfound appreciation of the subject, achieving higher grades than originally aiming for.

EDUCATION

Imperial College London – Aeronautical Engineering MEng (2022-2026)

Second Year Overall Grade	First-class (85%)	(Dean's list: ranked 2nd/120+ students)
First Year Overall Grade	First-class (79%)	(Dean's list: ranked 5th/130+ students)

City of London School (2013-2021)

A-levels: 3 x A* AS-level: 1 x A GCSEs: 11 x A*

WORK EXPERIENCE / EMPLOYMENT

July - August 2022 — *Software Engineering Internship – Nationwide Building Society*
Interned as a software engineer for 6 weeks, working with Javascript and ReactJS to deploy live features on the mortgage site. Honed ability to professionally network in a large organisation.

July - September 2024 — *Software Engineering Research Assistant – Imperial College London*
Developed a C++ application to interface between the commercial meshing tool ANSA and an Imperial-developed meshing tool, for use in high-order turbomachinery simulations. Organised meetings with developers at ANSA and the end-users at Rolls Royce to ensure solutions satisfied all parties.

June 2021 - present — *Maths and Physics Tutor*
Self-employed tutor with 300+ hours of experience, with tutees from primary school to college level.

EXTRACURRICULAR ACTIVITIES

2022 - present — *Imperial College Ice Hockey Club – President (2024-present), Social Secretary (2023-24)*
Oversee a 50-member society with two teams competing nationally across Great Britain. Organised a 500-spectator Varsity match, with Imperial ticket sales up by 35% compared to the previous year.

2023 - 2024 — *Imperial College Aerial Vehicle Society*
Member of the aero simulations team within ICAV, predicting the performance of the blended-wing aircraft that was designed over the year.

March 2024 — *London Defence Tech Hackathon – Team received 1st place prize*
Developed a concept design for countering radio frequency jamming systems for use in the war in Ukraine, a tool small enough to be attached to a drone.

May 2025 *(future)* — *US Airforce Research Labs Defence Hackathon – International networking*
In talks with the organiser of the hackathon to enable the submission of a team representing Imperial.

REFERENCES (on request)

Spencer Sherwin – Head of Aeronautics Department at Imperial and my research project supervisor
s.sherwin@imperial.ac.uk