Nathanael Jenkins **MEng ACGI**

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Education

PhD in Aeronautics and Astronautics (Ongoing) 2024 -
Massachusetts Institute of Technology

MEng Aeronautical Engineering with a Year Abroad (1st class honors) 2020-2024
Imperial College London, Massachusetts Institute of Technology (final year)

- Achieved an overall grade of 80% (GPA 5.0). Awarded: BAE Systems Prize for best individual research project, 'Aeronautics Scholar' award, and Dean's List (x4) for performance in top 10% of cohort
- Sponsored by the Institution of Mechanical Engineers (IMechE) 'James Clayton' Undergraduate Scholarship

A-Levels in Maths, Further Maths, Physics, Product Design (A*, A*, A*, A*) 2018-2020
Peter Symonds' College

- Authored a grade A* extended project qualification on the future of ion propulsion for air and space transport

Experience

Student Partner 10/2024 -
Giant Ventures

- Identifying and referring exceptional ventures to a global firm focused on technology, health, and climate

Graduate Student, Aeronautics and Astronautics 08/2024 -
Massachusetts Institute of Technology

- Developing physics-based simulation tools for lightning strikes to unconventional aircraft
- Shared work with industry through presentations, papers, and participation in the SAE AE-2 committee meeting

Summer Intern, Simulation & Modeling 06/2022 - 08/2022
MBDA Missile Systems

- Evaluated and implemented an alternative programming paradigm in a high-fidelity dynamic model
- Identified a solution to a long-term project which protected company IP while meeting client requirements
- Verified change sets, utilizing more than 2,000 core-hours on an industrial high-performance cluster

Undergraduate Researcher (UROP) 06/2021 - 08/2021
Imperial College London, Dr Sylvain Laizet (Supervisor)

- Implemented and profiled a novel C++ framework for high-performance heterogeneous computing

Lead Aerodynamics and Simulations Engineer 10/2020 - 08/2023
Imperial College London Rocketry, Altitude Record Team

- Conducted computational fluid dynamics (CFD) studies on high-powered supersonic rockets using StarCCM+
- Negotiated sponsorship with ESTECO, acquiring licenses to modeFrontier optimization software
- Integrated modeFrontier into engineering workflows, increasing rocket altitude by 3% and breaking a UK record

Duty Manager 03/2020 - 01/2021
The Food Warehouse, Basingstoke

F1inSchools Alumnus, Judge, and Event Volunteer 2017 -