

Nathanael Jenkins

Education

MEng Aeronautical Engineering (current) Imperial College London	2020 - 2024
<ul style="list-style-type: none">● Successfully completed first year studies achieving results equivalent to first class honours● Awarded a position on the 1st year 'Dean's List' after attaining a grade in the top 10% of the cohort	
A-Levels (A*, A*, A*, A*) Peter Symonds College, Winchester	2018 - 2020
<ul style="list-style-type: none">● Produced a grade A* extended project qualification (EPQ) investigating the feasibility of ion propulsion of spacecraft and aircraft● Networked with subject experts at RAeS, QinetiQ and Purdue University whilst conducting Extended Project research● Established time-management skills by maintaining a high standard of work whilst studying 4 A-Levels and an Extended Project	
10 GCSEs, grades 7-9/A* Robert Mays School, Odiham	2012 - 2018
<ul style="list-style-type: none">● Achieved grade 9 in seven subjects including Mathematics and Physics, and grade A* in Engineering	








Experience

Undergraduate Research Opportunity 'GPU Parallelisation of a 2D Navier-Stokes Solver' Imperial College London, Department of Aeronautics, Dr Sylvain Laizet (Supervisor)	06/2021 - 08/2021
<ul style="list-style-type: none">● Successfully delivered a C++ solver using SYCL to enable accelerated computation on heterogeneous systems● Developed an extensive understanding of high-performance heterogeneous computing, particularly GPU offloading● Utilised industry-leading tools in the Intel oneAPI HPC Toolkit, including use of the VTune profiler for deeper offloading analysis	
Aerodynamics & Simulations Engineer Imperial College London Rocketry, Altitude Record Team	10/2020 -
<ul style="list-style-type: none">● Led the aerodynamics sub-team, using advanced computational methods to develop and test proposed rocket designs● Demonstrated self-motivation by dedicating time to online fluid dynamics lectures to correctly apply 3D polyhedral meshing and compressible flow physics with real gas models in transonic and supersonic external flows● Extended use of CFD beyond the scope of undergraduate studies, using StarCCM+ and SU2 on complex computational domains	
Duty Manager The Food Warehouse, Basingstoke	03/2020 - 01/2021
<ul style="list-style-type: none">● Promoted from general assistant to duty manager within 5 months, having played an integral role in the opening of this new store● Confidently managed busy store periods, with total responsibility for store operations, safety and security	
General Assistant The Mill House, Odiham	10/2018 - 02/2020
Work Experience Placements NATS Southampton, AECOM Basingstoke, Miller Hare London	07/2017 - 08/2018
<ul style="list-style-type: none">● Enhanced commercial awareness through experience in three engineering companies, each with unique goals and challenges	

Achievements

IMechE James Clayton Undergraduate Scholar	2020 - 2024
Arkwright Engineering Scholar	2018 - 2020
<ul style="list-style-type: none">● Recognised as a future leader in engineering by the Southampton University Faculty of Engineering and Physical Sciences	
Formula 1 in Schools Alumnus, Judge and Event Volunteer	2017 -
<ul style="list-style-type: none">● 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● Committed to judging at Regional and National Finals, since 2019● Volunteered at 2020(21) World Finals, preparing teams from across the globe for live-streamed interviews	
Member, British Human Powered Flying Club	2021 -
Student Affiliate, Royal Aeronautical Engineering Society	2020 -
Student Affiliate, Scholar, Institute of Mechanical Engineers	2018 -

Software & Tools

	SolidWorks
	StarCCM+
	Fusion360
	C++
	MATLAB
	oneAPI
	Khronos SYCL

References available upon request