

# Nathanael Jenkins

## Education

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








## Experience

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

## Achievements

<b>IMechE James Clayton Undergraduate Scholar</b>	2020 - 2024
<b>Arkwright Engineering Scholar</b>	2018 - 2020
<ul style="list-style-type: none"><li>● Recognised as a future leader in engineering by the Southampton University Faculty of Engineering and Physical Sciences</li></ul>	
<b>Formula 1 in Schools Alumnus, Judge and Event Volunteer</b>	2017 -
<ul style="list-style-type: none"><li>● Achieved 5th place at the 2017 World Finals in Kuala Lumpur, Malaysia, out of 51 global teams</li><li>● Inspire the next generation of engineers by mentoring current teams in engineering and professional skills</li><li>● Committed to judging at Regional and National Finals, since 2019</li><li>● Volunteered at 2020(21) World Finals, preparing teams from across the globe for live-streamed interviews</li></ul>	
<b>Student Affiliate, The Royal Aeronautical Engineering Society</b>	2020 -
<b>Student Affiliate, Scholar, The Institute of Mechanical Engineers</b>	2018 -

## Software & Tools

	SolidWorks
	StarCCM+
	Fusion360
	C++
	MATLAB
	oneAPI
	Khronos SYCL

References available upon request