NATHANAEL **JENKINS**

EDUCATION

MEng Aeronautical Engineering 2020 - 2024
Imperial College London

- Demonstrated effective team working skills to successfully complete online laboratories and projects
- Improved motivation and self-study skills by adapting to online study

A-Levels (A*, A*, A*, A*) 2018 - 2020
Peter Symonds College, Winchester

- Produced a grade A* extended project 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* 2012 - 2018
Robert Mays School, Odiham

- Achieved grade 9 in seven subjects including Mathematics and Physics, and grade A* in Engineering

EXPERIENCE

Undergraduate Research Opportunity 06/2021 - 09/2021
Imperial College London, Department of Aeronautics

- Parallelised a 2D Navier-Stokes solver for operation on GPUs, under the supervision of Professor Sylvain Laizet
- Developed advanced computational skills, programming in Fortran with OpenACC, optimising code for various GPU architectures
- Exhibited independent study skills, teaching myself Fortran and GPU parallelisation over a period of weeks

Aerodynamics & Simulations Engineer 10/2020 -
Imperial College London Rocketry, Altitude Record Team

- Led the aerodynamics sub-team, using advanced CFD and analytical methods to develop and test proposed rocket designs
- Demonstrated self-motivation and interest, using several hours of online lectures to learn StarCCM+, including the use of 3D polyhedral meshing and compressible flow physics with real gas models in transonic and supersonic external flows
- Engaged with members of other sub-teams to propose the development of an in-house simulation program using MATLAB Simulink

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

- Promoted from general assistant to duty manager within 5 months
- Confidently managed busy store periods, with total responsibility for store operations, safety and security

General Assistant 10/2018 - 02/2020
The Mill House, Odiham

Work Experience Placements 07/2017 - 08/2018
NATS Southampton, AECOM Basingstoke, Miller Hare London

- 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

- Recognised as a future leader in engineering by the Southampton University Faculty of Engineering and Physical Sciences

Formula 1 in Schools Alumnus and Judge 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
- Committed to judging at Regional, National, and World Finals since 2019

SOFTWARE


SolidWorks


StarCCM+


Fusion360


Python


MATLAB

References available upon request

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