

Education

The University of [REDACTED]	Sept 2015 - Present
MEng Aerospace Engineering (Hons) with Industrial Year Average for 1 st & 2 nd year: 69.2% Individual Project: The use of CFD for optimisation of axi-symmetric cooling passages in gas turbine blades 2nd Year Design Project: Commercial Passenger Jet – 73%	
[REDACTED] College	Sept 2014 – June 2015
Access to HE Engineering & Technology Physics – 15 Distinctions Engineering Science – 9 Distinctions, 6 Merits Mathematics – 6 Distinctions, 9 Merits	
[REDACTED] College	Sept 2010 – June 2012
NVQ Level 2 Vehicle Maintenance & Repair Heavy Vehicle NVQ	

Employment History

The University of [REDACTED]	July 2018 – Sept 2018
Engineering Research Intern	
<ul style="list-style-type: none">• Lead development of a thermal shroud for a vacuum chamber used for testing research satellites• Performed heat transfer analysis of system model using Microsoft Excel and VBA• Used results of thermodynamic analysis to choose appropriate geometry of shroud chamber and liquid nitrogen cooling pipes• Modelled and created engineering drawings of the thermal shroud assembly in Solidworks to be manufactured in the workshop as a prototype	
[REDACTED] Ltd	August 2017 – Sept 2017
Engineering Intern	
<ul style="list-style-type: none">• Developed a petrol & diesel engine bill of materials spreadsheet, improved user interface, used VBA to add custom functions and used formulas to provide greater detail of material usage and cost• Used Solid Edge to redesign an engine mounting bracket, designed bracket to be manufacturable by a CNC machine, and easily sand casted by adding draft angles. Performed FEA analysis on the bracket to ensure 40% stress safety factor• Used a CMM machine to measure the mounting features of an oil cooler and designed an adaptor plate that was successfully machined and used as a testing component• Assisted with engine build manual development and data recording	
[REDACTED] Commercials	
Parts Manager	June 2013 – August 2014
<ul style="list-style-type: none">• Carried out administrative duties on vehicle parts storeroom, engaged with customers on sales of vehicle parts including negotiation of pricing• Managed storeroom stock levels and ordered in stock based on past sales and upcoming workshop jobs	
Vehicle Technician	June 2010 – June 2013
<ul style="list-style-type: none">• Carried out repair and maintenance work on customer vehicles• Carried out routine safety inspections on customer vehicles, ensuring vehicle was fit for road use and met MAN truck and bus safety inspection standards	

Extracurriculars

The University of [REDACTED] Flight Simulation Society

Project Manager

Sept 2018 – Present

- Manager of the societies aircraft design program, including co-writing a technical 70-page document detailing the design concepts and calculations
- Organised the year schedule of lectures, project milestones and deliverables, and assigned senior members to lecture topics to be delivered weekly
- Supervised a team of 2 students in the aircraft design project, providing guidance and assistance with the calculations involved

Senior and General Member

Sept 2016 – June 2018

- Competed in a US flight simulation competition with a hybrid flying car design, through giving a presentation and having our design simulation flown by test pilots and flight test engineers. Won “Most Innovative Design” award.
- As part of a team of 3, performed initial sizing, constraints, performance, and stability analysis for a concept hybrid flying car and a 100-passenger commercial jet. Developed the CAD model of both designs for visual aid in presentations
- Implemented the above designs into the university academic simulators and tested for flight performance and stability.
- Supervised a team of 3 students in the aircraft design project, providing guidance and assistance with the calculations involved

[REDACTED] University Sub Aqua Club

Sept 2017 – Present

Treasurer & General Member

- Managed club finances, budgeted for future costs, and sourced new equipment
- Successfully won bid for funding by presenting to 30 other societies in a university funding event
- Attended bi-monthly meetings on society progress, worked with other committee members on costs for equipment, training, and future society events
- Completed two diving courses with the club: BSAC Ocean Diver and Sports Diver

[REDACTED] Universities Air Squadron

Sept 2017 - Present

Officer Cadet

- Officer Cadet in RAF voluntary reserve university air squadron
- Engaged in AT, flying training, and leadership & team-building exercises.
- Organised a 2-day station visit to an RAF base

The University of [REDACTED]

Oct 2017 – June 2018

Aerospace Engineering 2nd year student representative

- Acted as a liaison between the students and the staff at monthly student – staff meetings

Skills

Solidworks, Solid Edge, LabVIEW, MATLAB, Microsoft Office, VBA programming, ANSYS Fluent & Mechanical

Interests

Electric guitar, kayaking, skiing, scuba diving, badminton, American football, swimming, computer gaming