David Stone

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Undergraduate aerospace engineer completing the fourth year of a master's degree. Hard working and self-motivated, with strong technical, analytical, and interpersonal skills for working in a team and efficiently completing a task.

Education

Academic Qualifications

University of Bristol   **Bristol**
MEng Aerospace Engineering , Predicted First Class   *2015–2019*

Ripon Grammar School   **Ripon**
A Levels, French (B) Further Maths (A) Maths (A*) Physics (A)   *2013–2015*

Ryedale School   **Nawton**
GCSEs, Biology (A*) Chemistry (A*) English Language (A) English Literature (B)   *2008–2013*
French (A*) Geography (A*) Maths (A*) Music (A) Physics (A*)

Notable Projects

Summer Internship: *'MATLAB Based UAV Control'*

This summer project was a continuation to the work on UAV assisted wilderness search and rescue missions that was carried out as a third year individual exploratory project. The primary focus of this work was to integrate and then develop the previously designed MATLAB simulation onto a real UAV. The project was a success, with the MATLAB code able to plan search paths and could send the waypoints to a drone using Mission Planner. The ability to command the drone to perform actions such as arming, taking off, and switching flight modes was developed and tested in an indoor netted arena.

3rd Year Individual Project: *'Path generation and following algorithms for UAV assisted wilderness search and rescue missions'*

This challenging project took place over the entirety of my third year. It required excellent planning and organisational skills, and the ability to investigate, plan, and prepare a piece of original research relevant to my degree.

2nd Year Group Project: *'Aircraft Wing Design, Build, and Test'*

In the 2rd year of my course we had a large group project to design, build, and test a 1.5m wingspan aluminium wing. I worked with a team of 28 people operating as a team leader. During this project I was responsible for organising sub-teams, and co-operating with various other sub-team leaders to create a design that met the requirements of the task.

Previous Experience

University of Bristol Drone Society   **Bristol**
Vice President   *March 2018–Present*

After 6 months in the role of treasurer we had our AGM where I was elected to be Vice President of the society. So far this role has involved organising and producing promotional material for the society, planning events, and helping to coordinate the construction of a flying arena.

o **University of Bristol Drone Society**   **Bristol**
Treasurer   *October 2017–March 2018*

As treasurer of the drone society, I was responsible for overseeing the society budget and approving purchases and expenses on behalf of the society. I was jointly responsible for managing an £11,000 budget for an industry sponsored event we ran in collaboration with two other societies.

o **Moorside 4X4**   **Kirkbymoorside**
Land Rover Mechanic   *July 2014*

I spent a week doing work experience at Moorside 4X4, gaining a detailed insight into the end product that engineering creates and whetting my appetite for studying the design side of engineering in greater depth. During this week, one of my tasks was to strip down the gearbox of a Series 1 Land Rover to clean, repair and replace worn parts.

o **Quasar Automation**   **Mickley**
EDT Engineering Education Scheme   *October 2013–April 2014*

I was delighted to be selected for The Engineering Education Scheme; my project involved the use of robotics to automate a manufacturing process, and for which I achieved a Gold Crest Award. I also gained the highest score for originality towards solving a problem, a score only managed by one in fifty teams.

Technical and Personal skills

o **Programming Languages:** Proficient in: MATLAB, TeX
Also some experience with: C, C++, HTML.

o **Industry Software Skills:** Inventor (Advanced), MATLAB (Advanced), Nastran/Patran (Intermediate), Many MS Office products (Advanced).

o **General Skills:** Good presentation skills, works well in a team.

o **Other:** Good soldering skills, can write well organised and structured reports.

Interests and extra-curricular activity

o Drone Soc

o Climbing/Mountaineering

References

o Available on request