David Stone

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UK / US Citizen

Graduand aerospace engineer having recently completed 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, First Class — *2015–2019*
- **Ripon Grammar School** — **Ripon**
  A Levels, Mathematics (A) Further Mathematics (A) Physics (A) French (B)* — *2013–2015*
- **Ryedale School** — **Nawton**
  GCSEs, Biology (A) Chemistry (A*) English Language (A) English Literature (B) French (A*) Geography (A*) Maths (A*) Music (A) Physics (A*)* — *2008–2013*

Notable Projects

- **Final Year Research Project:** *'Multi-UAV Search and Rescue'*
  - Continuation of MATLAB based 3rd Year Project and Summer Internship.
  - Developing strategies to perform Multi-UAV search and rescue missions.
  - Project showcased at the Art of Science 2019 exhibition.
- **4th Year Group Design Project:** *'New Short-Range Airliner Family'*
  - Member of a 9 person team producing a comprehensive design of two airliners.
  - Design was presented to a panel of specialists from Airbus for evaluation.
  - Winning team at the Final Design Review awarded for best design, presentation, and response to questioning at the technical poster session.
- **Summer Internship:** *'MATLAB Based UAV Control'*
  - Research Internship was a continuation of my third year individual exploratory project.
  - Primary focus was to integrate onto a real UAV, and then develop a MATLAB simulation I had coded during my third year project.
  - MATLAB code successfully planned search paths and commanded a drone using Mission Planner.
  - 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'*
  - A challenging project that took place over the entirety of my third year.
  - Required excellent planning and organisational skills, and the ability to investigate, plan, and prepare a piece of original research relevant to my degree.
- **Computational Aerodynamics C++ Project:** *'Coding a finite-difference and finite-volume scheme for a two-dimensional non-linear wave equation'*
  - Wrote a code to use numerical methods learnt from the course, to give approximate solution of PDEs relevant to aerodynamics/fluid dynamics.
  - Built on knowledge from 1st Year C-Coding Module to write a code primarily in C, with C++ used for input/output. OpenGL was used to obtain graphical output.

- Learnt how to convert numerical methods to high level code and experienced the process of logical bug identification.

- **2nd Year Group Project:** *'Aircraft Wing Design, Build, and Test'*
  - A large group project during the 2nd year of my course to design, build, and test a 1.5m wingspan aluminium wing.
  - Worked with a team of 28 people operating as a team leader.
  - 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–June 2019*
  - After 6 months in the role of treasurer 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.

- **University of Bristol Drone Society** **Bristol**
  Treasurer *October 2017–March 2018*
  - In charge of overseeing the society budget and approving purchases and expenses on behalf of the society.
  - Jointly responsible for managing an £11,000 budget for an industry sponsored event we ran in collaboration with two other societies.

- **Moorside 4X4** **Kirkbymoorside**
  Land Rover Mechanic *July 2014*
  - Spent a week doing work experience at Moorside 4X4, gaining a detailed insight into the end product that engineering creates.
  - One of tasks was to strip down the gearbox of a Series 1 Land Rover to clean, repair, and replace worn parts.

- **Quasar Automation** **Mickley**
  EDT Engineering Education Scheme *October 2013–April 2014*
  - One of four students in the school to be selected for The Engineering Education Scheme.
  - Project involved the use of robotics to automate a manufacturing process, and for which I achieved a Gold Crest Award.
  - Gained the highest score for originality towards solving a problem, a score only managed by one in fifty teams.

Technical and Personal skills

- **Programming Languages:** Proficient in: MATLAB, LaTeX
  Also experience with: C, C++, HTML.
- **Industry Software Skills:** Inventor (Advanced), MATLAB (Advanced), XFOIL (Advanced), Nastran/Patran (Intermediate), Many MS Office products (Advanced).
- **Other:** Good soldering skills, can write well organised and structured reports. Full, clean driving licence, held for over three years.

Interests and extra-curricular activity

- In my spare time I enjoy climbing and mountaineering. I have completed a Scottish Winter Mountaineering course and have been involved in several trips abroad to pursue my passion internationally.

References

- Available on request