## Qualifications

BEng Aerospace Engineer, University of Hertfordshire, 2018

## Profile

-From the north-west, trained in Manchester.

-my degree, fyp, group work, matlab,

-I learned attention to detail, respond well to feedback/constructive criticism, creative problem solving, organised

-good structuring and planning from end-to-end projects

My individual project was focused around the Design and evaluation of a solar powered UAV.

During University my interest in programming developed as I was exposed to Matlab and Python were I began to form a foundation for my training at QA. Upon being given the opportunity to join QA I have rapidly developed a full stack software skillset and I am now eager to continue to learn and grow in the software industry.

Technical Skills

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| **Technology Domain** | **Technologies and Tools** |
| Programming Languages | Java, HTML, CSS, JavaScript, Python |
| IDE’s | Eclipse, Visual Studios |
| Operating Systems | Windows |
| DevOps Technologies | Git (<https://github.com/bernardabraham>) |
| Database Technologies | MySQL |
| Project Frameworks | Agile Scrum |
| Other | MATLAB, React, php |

## Experience

### QA Consulting – Consultant

#### Spring Boot Ticketing System

I was part of a team that created an enterprise project from beginning to end based around a cinema ticket ordering system. The application gave the opportunity to use spring-boot technologies with a PostgreSQL database to store and retrieve data, which would then be connected to a number of different front-end technologies.

My responsibility focused more around the front end of the application. I implemented a fully designed and integrated front-end site using the VueJS framework, which I would then connect to the Spring Boot backend. This involved working with REST API’s and connecting the two layers of the architecture through Axios, a plugin designed to deal with all POST and GET requests between the server and the front-end site.

#### Learning Management System

I was part of a group project which involved building a Learning Management system using micro-service architecture. My role was to assist in building the backend which involved the use of java in the form of Spring Boot.

In addition to working on the backend I built the frontend using React JS. During the second sprint, I was part of the tech team where I reviewed the code written by the developers and made sure the code was functioning correctly, so it could be pushed on to the feature branch on GitHub and helped other team members when they needed it.

#### Individual Project

I also possess the ability to work independently and oversee the planning and execution of large scale projects. I proposed my final year project titled ‘Design and Evaluation of a High Altitude Long Endurance UAV’, creating project plan through the means of a Gantt Chart and project timeline which detailed one year of independent work to produce a 50 page finalised project , centred around new and upcoming technologies in long endurance flight. The project consisted of research, CATIA design and drafting of a new UAV capable of continuous year round flight. Xplane simulation, lift/drag as well as power calculations were used as part of a detailed analysis. Finally I presented my work in front of Panel which was followed by questions, honing my skills to effectively communicate and explain the work I had been involved in. In the process I acquired independent time management, attention to detail, CATIA Design and end-to-end project management skills will be useful for my effective execution of this role.

## Additional Information

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| * First aid at work | * Manual / Heavy lifting | * Fire Prevention training |
| * Presentation skills | * Full, clean driving license | * Health and Safety at work training |

## Hobbies/Interests

I also enjoy listening, playing and writing music. I have been playing piano for the past five years and I find the creative outlet to and composing skills. I continue to learn new technical skills.

I also try to maintain a healthy and balanced lifestyle, which includes exercise. I love to watch and participate in sports such as football which allows me to stay fit and helps support my work life.

**PERSONAL STATEMENT**

*I am an industrious and highly motivated Aerospace Engineering Graduate. I have successfully shown I can work on projects independently and in a group environment whilst displaying strong work ethic and communication skills. I have developed the ability to plan an end-to-end engineering project in detail and execute on its aims to produce a finalised professional document. I am a trustworthy employee as I have given commitment to teams over long stretches of time by providing continued punctuality and professionalism whilst presenting ideas then acting on group feedback. I possess a full UK drivers licence and am willing to relocate.*

**KEY ACHIEVEMENTS**

* End-to-end project management: Produced a thesis titled ‘Design and evaluation of a High Altitude Long Endurance UAV’ and gave a presentation to a group, detailing the outcomes of the project and answering questions, which received 2:1 grading.
* Presented Engineering slide shows to a large audience including qualified professionals and professors on multiple occasions for both personal and group related tasks, developing a confident and professional public speaking and presenting style.
* Developed conceptual skills modelling and drafting detailed components including an autonomous drone, a military aircraft, engineering components in CATIA 3D Modelling Software.
* Worked on a design team as an aerodynamics engineer to produce a conceptual design for a Military Transport Aircraft, from conceiving preliminary ideas to detailed design of the aircraft and preparation for the market.
* Produced a cost breakdown for a proposal to send a probe to Neptune, giving a presentation as part of a team to a group of assessors.
* Worked with complex physics problems in MATLAB including modelling transfer orbits of a probe in 3D space.
* Created a web crawler algorithm which scans web pages for search terms, using Python software.

**EMPLOYMENT HISTORY**

06/2017-09-2017

Dear Sir/Madam,

I.

During my education at Hertfordshire I participated in various projects which have provided a strong foundation for the role. Over the course of my final year I worked on a team to design and optimise a military transport carrier which functioned to replace the Boeing C-17. My role included working closely with the design and simulation of the wings and lift devices as well as the detailed calculation of aircraft properties including weight, lift and drag. I created a model to fully optimise the aircraft for efficient flight and presented my work to over 100 people including industry specialists and answered rigorous questions as part of a Q&A afterwards. I believe the transferable skills are relevant as I worked to strengthen my abilities to work as part of a team and to communicate ideas to team members as well as to larger audiences in a public speaking setting. I was recognised by the leader for my ability to quickly identify potential issues and resolve them without impacting the project timeline.

I have a record of consistent employment alongside my studies. I have worked extensively in customer facing roles in for major retailers, which allowed me to strengthen my communication and team work skills. I have also worked in sales positions for the company Wesser, in which I approached hundreds of people a day to pitch a value proposition to gain funding for St John Ambulance. From this track record of employment I have learned effective time management, punctuality and negotiation skills.