

## **Joshua Benjamin Cox**

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### **Profile**

Recently graduated with a 2:1 Masters in Aerospace Engineering, Astronautics and Space Technology from Kingston University London. Is now studying MSc robotics at Bristol university.

A long standing interest in technology and science, together with an affinity for scientific subjects and mathematics, led to the decision to study the above technology degree. This degree enabled the development of skills in time management, team work, communications and working in high pressure situations. These skills were also complemented by being employed as a lifeguard, which included monthly training to deal with typical high pressure situations. The monthly training also helped reinforce excellent skills in team work and communication. Participated in both individual and group projects which enabled the ability to work independently or as part of a team. Looking for an interesting engineering role which would develop skills which were obtained throughout the degree.

### **Qualifications/Education**

**Aerospace Engineering, Astronautics and Space Technology MEng (Hons) – 2:1**  
**Kingston University London** September 2013 – July 2017

**A levels Tomlinscote School and Sixth Form College, Frimley** September 2011 – August 2013  
Maths, Chemistry, Biology and As Physics

**GCSE's Tomlinscote School and Sixth Form College, Frimley** September 2006 – August 2011  
Business studies, Physics, Maths, Chemistry, Biology, English literature, English language, Resistant materials, French, IT, R.E (Short Course)

### **Technical Skills:**

Proficient with Microsoft Office programs.  
Working knowledge of computer aided design – Solid works.  
Proficiency with some coding languages C++, HTML, CSS  
Basic proficiency with other coding languages – SQL, python, Javascript  
Workshop experience – Lathes, Mills etc.  
Proficiency with Arduino software.  
Basic understanding of Matlab.  
Basic knowledge of LabVIEW.

### **Achievements**

Duke of Edinburgh silver award  
Winner of Robotics challenge during first year of university.

### **Project experience**

During the first year of the degree a project was undertaken to design a wing structure which had to support the maximum weight possible, this was organised in groups of six and the structure to be manufactured out of balsa wood. This project enabled a basic knowledge of project management to be obtained and it also required the ability to work in a team effectively, obtain improved communication skills to organise deadlines and assign tasks to those who would carry them out most effectively.

In the second year of the degree there was a project to work in a team of 6 to design a short range commercial airliner for use in Europe and North America. This required an enormous amount of research to establish every correct aspect of the design.

During the third year individual projects took place, one of which involved the use of Arduino microcomputers to monitor data from amateur rockets/actuate rocket ignition. This provided great insight into coding and general syntax. It also provided experience in debugging and documenting any changes made.

Towards the end of the degree there was a group project involving LATV's for the Masters students, which involved the improvement and redesign of an incomplete LATV that Kingston University had. Directly involved with the structural design and the propulsion system redesign.

### **Professional experience**

**Pfp Leisure** November 2012 – November 2014

Camberley, Surrey  
Lifeguard (Part time)

Main duties: Ensure safety of all pool users, maintain high standards of cleanliness and customer service, participate in monthly training, also partook in work experience in maintenance department.

**Kingston University** 2015

Kingston upon Thames, London  
Intern/Researcher's assistant

Main duties: Coding of control system, compiling design requirements, document design decisions, assembly of control system.

**Game Retail** November 2016 - March 2017

Kingston upon Thames, London  
Sales Assistant (Part time)

Main duties: Maintain high standards of customer service, ensure sales figures were met, assist in events work when required and maintain technical knowledge of current hardware through e-learning.

**References available upon request**