

# Curriculum Vitae

## Jonathan Witherstone

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Blending a knowledge of hardware, software and system design with academic training at Loughborough University to offer skills in electrical engineering and embedded software design. Incorporates an experience in a variety of different sized organisations to provide employers with a well-rounded technical background.

### Personal Details

Home Address: 10 Park Street, Plymouth, Devon, PL3 4BL

Telephone: 07872491113

Email: Jonathanwitherstone@gmail.com

### Education

- 2013 – 2018 Loughborough University  
MEng (Hons) Electronic and Electrical Engineering. Class 2:1  
A final-year project to create a non-contact method of viewing an individual's heart rate. This is done using a dual camera set up and programmed in MATLAB.  
A third-year group project in creating an autonomous system to explore and navigate an unknown and possibly hostile environment  
Subjects Studied include: Programming and software design, Digital signal processing, Communications, Network Security, Digital Interfacing and Instrumentation.
- 2012 – 2013 Loughborough University  
Science and Engineering Foundation Year passed (70%) to allow for progression onto a course with entry requirements of A B B at Advanced Level.
- 2005 – 2012 Devonport High School for Boys, Plymouth  
Advanced Level (A Level): Mathematics (C), Physics (C), Information Communications Technology (C)  
Advanced Subsidiary Level (AS Level): Product Design  
13 General Certificates of Secondary Education (GCSE's) Including Maths (A\*) and English (B)

## Work Experience

- 2018 Race Stream – Hardware Design  
For 10 weeks after graduation I worked with a start-up to research and develop a fundamental piece of hardware that will be used to grow the business. With the incredibly time limited nature I had to be self-motivated to produce the product.
- 2016 – 2017 Park Air Systems – Industrial Placement (Systems)  
For a year I worked within the systems engineering department designing air traffic control systems for a variety of customers across the world, this included RF modelling, interference calculations and cost analysis. I also worked closely with an external supplier to characterise high power cavity filter.
- 2015 Plessey Semiconductors – Summer Intern  
I spent three months working within the product design team at Plessey Semiconductors, my main role was working on display pieces for a large lighting exhibition, including a wirelessly controlled track light.
- 2010 – 2011 Orange Retail – Sales Assistant  
While studying for my A Levels I worked as a retail advisor in a store in Plymouth. I learned basic sales skills, how to deal with many different types of people and the detailed operation of smart phones and key applications.

## Additional Skills

I understand the C, C++, and Python programming languages having produced projects not only for my University course but also for projects using the Arduino and Raspberry Pi platforms. I undertook a competition, organised by Thales, in which an Arduino based product was made in 12 days, my team created a wireless wearable battle monitoring system.

## Positions of Responsibility

I have been on the Committee for Loughborough University Canoe Club for over 5 years. This involved a period as the Website and Media Secretary where I oversaw media outreach, a stretch as Training Secretary, where I presided over the club development, and a as Secretary and Chair where I make sure the club continues to run smoothly. All these roles have improved my leadership, management and team working skills.

## Interests

I am a part of the Loughborough University Canoe Club; here I compete in many national events as well as undertaking river trips within the U.K. and across Europe. I am also a qualified referee for canoe polo, have safety and rescue and coaching qualifications. I am a keen photographer, mainly concentrating on sports photography, with pictures published in the Canoe Focus magazine.

## Referees

- Employment Reference - Tom Fletcher – Race Stream Founder  
tom@racestream.co.uk
- Academic Reference - Sangarapillai Lambotharan - Personal Tutor  
S.Lambotharan@lboro.ac.uk  
+44 (0)1509 227033