

# Jack Gooding - Curriculum Vitae

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## Summary

I'm a self taught coder, very interested in making things both physical and digital. Over the last year and a half I have taught myself all basic webdesign technologies, some server oriented languages/technologies, and used them in several projects both personal and professional. I'm a motivated and self-sufficient individual and a quick learner who enjoys jumping into new challenges.

## Keywords

Web: HTML, CSS, LESS, JavaScript, JQuery, Angular  
Server: Node.js, React, Electron, SQLite  
Rapid Prototyping: CAD (Solidworks, Onshape), 3D Printing, Laser Cutting  
Limited Experience: Java, Python, SASS, C++

## Personal Projects

### Home Automation

A NodeJs server running on a Raspberry Pi 3b: this projects goal is to control all the IoT devices I have from one interface, and to several custom IoT devices that I've made using either Arduino microcontrollers or the Raspberry Pi. These devices include Philips Hue Bulbs, TP-Link WiFi Plugs, Temperature/Humidity Sensors, Stepper Motors and WS2812b LED strips.

### Idle Game

I have always enjoyed Idle Games, and I thought that creating one would be a good way of increasing my knowledge of JavaScript and general web design. I started building while still learning a lot of the basics of JavaScript as an outlet to experiment and try the new methods I learned in an actual project. I set myself the challenge of having as little HTML hard coded, and instead generating it using JavaScript and a few objects as a base.

### PC Horse Transport

I was approached by a relative to help with a recently purchased business in which workflow inherited was very manually intensive, with all bookings and calculations being done on paper and by hand. I created a system to streamline this using a combination of Google services and scripting, to allow her and her customers to use an online booking form to submit their job requests, responding with a cost estimate, a new calendar event and a confirmation email.

## Employment

### Software Support, John Lewis

2016 - 2018

In this role, my main responsibility is to provide advanced specialist support for colleagues in the lower tiers of customer support. This support is primarily troubleshooting issues customers have faced with their purchases, whether hardware or software related. I am required to constantly use my own in-depth knowledge of the main operating systems and popular devices, as well as learning and researching new information and techniques rapidly, while also handling either one of my colleagues or a customer. In addition to this, I step up to fill spaces in all other facets of the business, providing cover wherever needed, including managerial positions, direct customer support and staff training.

### Outreach Presenter, Plymouth University

May - July 2016

As an Outreach Presenter, I gave presentations to visiting classes from secondary schools in the Plymouth area. These presentations were based on the concept of energy and electricity, how different countries generate electricity, and how they cope with the various

problems surrounding it. In addition to this, I prepared and oversaw several group activities; in one of which, the children designed, built, and tested wind turbines made from office supplies.

## Education

### Plymouth University

2012-2016

BEng Mechanical Engineering, Lower Second Class Honours

Engineering Drawing, CAD, and Design	69%
Introduction to Thermo-Fluids	64%
Engineering Mathematics	61%
Integrated System Design	61%
Business Dynamics	59%
Mechanics	59%

As part of my Third Year at Plymouth University, I completed a dissertation on efficient energy generation in rural areas, which focused on a small village in Cameroon, West Africa, with a very weak and unreliable power grid. I researched the area, decided which method of energy generation was most suitable, and then tested several designs to determine the best blade type, while minimising the necessary materials and cost of the solution.

### Tavistock College

2006-2012

A-Levels

A\* - Electronics, B - Maths, B - Physics

GCSEs

11 GCSEs including Electronics, Maths, Physics, Chemistry, Biology and Graphic Design

## Hobbies/Interests

### Making

I have always had a keen interest in making and building things. I am always working on at least one project in various specialisations, and always looking to improve my knowledge and abilities. The creations I am most proud of are: a Digital Clock made from scratch using logic gates, a 3D printed key holder, and a handmade wooden cabinet.

Recently I have mostly been doing a lot of CAD work and 3D Printing as I have just purchased a 3D printer.

### Film & TV

I enjoy keeping up with new releases, and am almost always watching something in the background.

*Last Updated: October 2018*