

Qualifications

University of Auckland

2013 – 2016

- Bachelor of Engineering (hons) – Mechatronics

Work Experience

Cubic Defence New Zealand:

November 2015 – February 2016

- Engineering intern

Smith and Davies LTD:

January 2015 – March 2015

- Labourer and surveyor

Spraytime Furniture Finishers:

November 2014 – November 2015

- Labourer

Datum Projects:

September 2014 – December 2014

- Labourer

Other Experience

Online edX courses

2017

- Microsoft: DEV211.1x Introduction to HTML and JavaScript

University of Auckland social basketball:

2016

- Team member

University of Auckland social volleyball:

2016

- Team member

Engineering hobby projects:

2016

- Solo design and construction of an electric skateboard

Engineering academic projects:

- Improvement of a robotic exoskeleton for gait rehabilitation **2016**
- Development of a SLAM robot **2016**
- Design and development of a robotic gripper **2016**
- Design of a droplet generator using ANSYS **2016**
- Design implementation of an analogue line-following car **2015**
- Coding of a calculator using an FPGA development board **2015**

Senior prefect – Glenfield College

2012

Voluntary Experience

Member of HDF Hockey Club:

2013 - present

- Head of Forwards

Bayview Primary School

2017 - present

- Installation and troubleshooting of two 3D printers for educational use
- Teaching staff and students 3D printing basics

Skills

Site Safe:

- Building Construction passport – valid from February 2015

Software competence:

- Proficient with coding programmes, including C, C#, C++, Matlab, Assembly Language, LabVIEW, Verilog, VHDL, HTML, CSS, JavaScript, and Python
- Experience with AVR, Arduino and Raspberry Pi
- Experience with Creo, SolidWorks Altium, ANSYS, Altera Quartus and LTspice

Hardware competence:

- Milling, welding, soldering, drilling and lathe
- Part selection and assembly
- Laser cutting and 3D printing