

## Education

### Macleans Collage

2006–2012

- Service Prefect
- Distiction in Computer Science
- IGCSE A Levels

### AUT University

2013–2017

*Mechanical Engineering (Honors)*

## Employment

### NeSI

2018–Current

*Applications Support Specialist*

Support

- Training
- Documentation
- eRNZ

### Tycho

2018–Current

*Sole Employee*

Engineering Design

- Engineering CAD
- Primarily Long Term Clients

### AUT

2016–2017

*Research Assistant*

- UAV Controller Design
- IMU Filters
- Instrumentation Design

### White Star Products

2017–2018

*Trainee Engineer*

- Built [www.swageturn.co.nz](http://www.swageturn.co.nz)
- Models, renders, and sheets for 200+ parts
- Marketing Material
- Product Management
- Engineering Advice

## **ARHT**

2013–2021

*Simulator Instructor*

- Represented Volunteers at 2014 Royal Reception.

## **Skills**

### **Training**

I find training very fulfilling. I have been significantly involved in development of training materials, organisation and delivery of workshops, webinars, etc

- Software Carpentry Instructor
- Webinars
- Workshops at Resbaz 2019-2022
- Workshops at eRNZ 2021, 2022
- Workshops at NZRSE 2020, 2022

### **Information Architecture**

Similar to training, I find organising information in a way that is easy to find, intuitive and digestible.

- mkdocs
- Software Carpentry

### **Engineering CAD**

- Solidworks
- CadQuery

### **Scientific Programming**

- Reproducibility
- Workflow Design
- Parallelisation
- Optimisation
- FAIR

### **DevOps**

- CI/CD

## **Data Science**

Whatever this means to you, I can do it.

- GitLab CI/CD
- GitHub Actions
- Automation
- Machine Learning
- Visualisation

## **Cloud Computing**

- OpenStack
- Azure
- AWS
- Google Cloud
- Containers

## **High Performance Computing**

- Bash
- Module software stack
- Scheduler (SLURM)
- Containers

## **Digital Design**

- Adobe Suite
- GIMP
- Krita
- Blender
- Inkscape
- LaTeX

## **Web Development**

- NodeJS
- Django
- LAMP
- Wordpress
- Static

## **Languages**

### **Competent**

C/C++/C#

JavaScript

Python

MATLAB

Bash

## **Familiar**

HTML/CSS

PHP

Fortran

LUA

TCL

VBA

SQL

## **Qualifications**

**The Carpentries Software Carpentries Instructor**

**RYA Coastal Skipper**

**RYA International Certificate of Competence (Sailing)**

**Royal New Zealand Coastguard Boatmaster**

**Royal New Zealand Coastguard VHF Operator**

**SSI Advanced Open Water Diver**

**PADI Rescue Diver**

**PADI Enriched Air Diver**

**Emergency First Responder**

**NZTA Full Drivers Licence**