

## 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