

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
- 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