Education

Macleans Collage

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

AUT University

Mechanical Engineering (Honors)

Employment

NeSI

Applications Support Specialist

Support

- Training
- Documentation
- eRNZ

Tycho

Sole Employee

Engineering Design

- Engineering CAD
- Primarily Long Term Clients

AUT

Research Assistant

- UAV Controller Design
- IMU Filters
- Instrumentation Design

White Star Products

Trainee Engineer

- Built www.swageturn.co.nz
- Models, renders, and sheets for 200+ parts
- Marketing Material
- Product Management
- Engineering Advice

ARHT

Simulator Instructor

- Represented Volanteers 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, intuative and digestable.

- mkdocs
- Software Carpentary

Engineering CAD

- Solidworks
- CadQuery

Scientific Programming

- Reproducability
- Workflow Design
- Paralellisation
- 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
- Djanjo
- 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