

# Daniel Eisen

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<https://github.com/eisendaniel/>

## About Me

I am an engineering student, with a passion for electronics, science and programming, with particular interest in the development of discrete embedded systems. In the future I hope to work with human/hardware interface and signal processing, for example in integrated prosthetics.

A lifelong enthusiasm and interest in science and technology, as well as enthusiasm for problem solving has led me to gain a large knowledge base, and technical proficiency.

I strive to be a hard-working, and communicative individual with strong work ethic and integrity. Highly motivated, consistently working to the best of my ability and embracing criticism, striving towards improvement.

Recently I, and some of my peers began to work with our faculty in the establishment of a Robotics and Mechatronics club, which we hope will be an avenue for students to grow their skills and interests as well as serve as an outreach platform.

## Technical profile

### Skills:

- Design/Constructions of IC/MicroProcessor based digital circuits/systems
- Electronic testing and data analysis
- Schematic and PCB design
- General application based programming
- Networked applications
- Microprocessor based embedded programming

**Languages:** C/C++, Python, Arduino, Rust, Java, 8051 assembler

**Environments:** Altium, AutoDesk, Adobe, Microsoft, and Google Cloud Platforms

## Experience

11/2019 - 02/2020

### Summer Engineering Researcher - Robinson Research Institute

Worked as a part of a team research project in the development of an integrated GMR sensor system for use in power grid monitoring. This involved signal processing, data-analysis, embedded development as well as both digital and analog electronic work. Personally my work was a mix of collaboration with different parts of the project, and working independently on the signal processing and section, as well as weekly presentations and progress summaries.

07/2019 - 11/2019

### Data Analysis in Python Tutor - Victoria University of Wellington

- Course involved data analysis techniques use Numpy, Pandas and machine learning
- Tutor labs/tutorials up to 40, 100 level students. Answering questions and assisting with assignments and assignment work
- Marking and providing feedback on weekly assignments and tests
- Personally running weekly, smaller one on one help desk sessions for those with particular questions or issues

## Experience

02/2019 - 06/2019

Into to programming Java Tutor - Victoria University of Wellington

- Covered introduction to data structures and algorithms using Java
- Tutoring tutorials of up to 40, 100 level students. Answering questions and assisting with assignments and lab work
- Marking and providing feedback on weekly software assignments and tests

## Education

Bachelor of Engineering (Hons): Electronic and Computer Systems Engineering

Victoria University of Wellington

2018 - present

- **Course Work:** Digital Electronics, Electronic Design, Analogue Circuits and Systems, Model Differential Equations, System Programming, Network Applications, Engineering Modelling & Design, Data Structures & Algorithms
- 2018 Faculty Deans List

2016

**Certificate:** Introduction to Computer Engineering Course  
Techtorium NZIIT

## Referees

*Supervisor - Principal Engineer*

**Dr Fiona Stevens McFadden**

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