

Daniel Nevin

dnevin234@gmail.com | www.danielnevin.com | +61 0403 650 220

EDUCATION

The Odin Project

Open Source Full Stack Web Development Course

December 2022 – Now

Online

- Completed the Frontend curriculum and learned how to build interactive web applications using HTML, CSS, JavaScript, React.js, TailwindCSS, and Firebase across 19 self-driven projects including a fully-functional Reddit clone with user authentication and persistent user submitted content.
- Learned how to implement and institute version control using Git and Github.
- Learned how to implement automated unit testing using Jest to ensure functionality.
- Continuing to progress through the Backend curriculum; learning Express.js and MongoDB.

Massey University

Bachelor of Engineering with Honours (Mechatronics)

Graduated May 2021

Palmerston North, NZ

- Investigated the structure and geometry of a 3-Dimensional lattice of auxetic meta-materials using the SolidWorks simulation suite, with the aim of optimizing it for impact protection.
- Developed a computer vision program in Python and LabView to guide a custom multi-joint robot arm through the process of gripping and moving a load.
- As part of a team, prototyped a pipe-crawling amphibious robot for an external stakeholder for the investigation of possible contaminant spread throughout the local stormwater system.

WORK EXPERIENCE

Steelfort Engineering

Mechanical Design Engineer

June 2021 – Feb 2023

Palmerston North, NZ

- Steelfort Engineering's Commercial Products Division manufactures Heat Exchangers and Stainless-Steel Equipment for a variety of New Zealand Industries.
- As a Design Engineer at Steelfort Engineering, I quoted, engineered, designed, modeled, and drafted industrial heat exchangers and stainless-steel equipment primarily for the New Zealand Food and Pharmaceutical industries.
 - Formally corresponded directly with customers and key stakeholders across multiple key projects.
 - Developed supporting documentation and post-purchase manuals for Steelfort Engineering's more complex products.
- Worked both as a member of Steelfort Engineering's Research and Development team, and in the capacity as their sole Design Engineer.

CERTIFICATIONS, SKILLS & INTERESTS

- **Skills:** Modelling and Drafting in Autodesk Inventor and SolidWorks; File Management using Autodesk Vault; Finite Element Analysis; Customer relations; Formal writing; Quick learner; Software Development using Python, C++, and JavaScript; Front-End Development using React, TailwindCSS, Bootstrap, Three.js, and Webpack; Version control using Git and Github; Unit testing using Jest;
- **Interests & Passions:** Software Development; Computer Vision; 3D Printing; Weightlifting; European cars; PC Building and Gaming; Sightseeing and Travel.