

## Electronics Engineer - CV

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### PROFILE AND MAIN OBJECTIVE

I am an electrical and electronic engineer, who is resourceful, kind-hearted, ambitious, and hardworking. My ambition is to be involved in revolutionary electronic projects relating to hardware design, embedded systems, and with the end goal of improving the world through my creations and to one day send my work to the stars.

#### ACCOMPLISHMENTS

- Presenter at Biannual Marshall Day conference.
- President of the UC Computer Society (CompSoc)
- Placement Winner of "Students With A Passion for Astronomy" Scheme

#### RELEVANT ENGINEERING SKILLS

- Specialty: Embedded systems, PCB design and Wire harnesses.
- Programming: C, Python, MATLAB, VHDL, and Git Version Control.
- Manufacturing; SOLIDWORKS, Laser cutting, and 3D printing.
- Power electronics.

#### ADDITIONAL EXPERTISE

- Acoustics engineering
- Adobe Graphic Design Suite
- 5 years of medical training through St Johns cadets (First-Aid certified)
- Repairing my broken Audi
- Japanese

### WORK EXPERIENCE

#### Acoustics Consultant

Marshall Day Acoustics NZ | Nov 2022 – June 2025

As an acoustics consultant I independently worked on projects and successfully managed my scheduling when deadlines urgently changed. I directly communicated with clients, architects, and other industry professionals. Due to my background being in electronic engineering, there was a steep learning curve to this position. I overcame this through ardent independent study, on-the-job experience, and close collaboration with senior staff. Since leaving my dependability shows from clients continuing to contact me requesting my work.

I gained this job following a R&D summer internship developing a remote outdoor noise logging terminal. I worked in all areas of acoustics and some notable projects I have worked on are: developing a 360-degree VR listening room, room acoustics design for studios and museums, environmental noise measurements, auralisation simulations, and sound insulation modelling.

#### Power Internship

MainPower NZ LTD | Nov 2021 – Feb 2022

Worked in power distribution network engineering. My role included: Issuing work orders with solutions for unexpected maintenance, department budgeting for financial year, and drafting yard switching diagrams.

### FINAL YEAR PROJECT

#### Rider comfort detection for public transportation

I designed and programmed an embedded system to collect data from multiple environmental sensors and modules to determine rider comfort in a vehicle. Key aspects of this project were: using I2C and CAN wire harnesses, programming an ESP32 in C, PCB design, and integrating the embedded system to effectively communicate with a separate Linux Based Platform.

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## ACADEMIC HISTORY

### **Electronic and Electrical Engineering Bachelor's Degree (Honours)**

University of Canterbury | 2019-2023

- Class representative for both 4<sup>th</sup> year Electrical & Mechanical departments (despite taking only one mechanical paper)
- Executive for UC Computer Society, Compost Society and IEEE Student Branch
- Member of Student Volunteer Army, UC Aerospace, New Zealand Students' Space Association

## LEADERSHIP EXPERIANCE

### **Computer Society President**

UC Computer Society (CompSoc) | Aug 2020 – Nov 2021

- Organize large scale events for members (club members approx. 300)
- Delegation and management of club members
- Interacting closely with Computer Science department and University

### **Student Events Leader**

Uni Life | Jan 2021 – Nov 2021

Provided a supportive, welcoming, and encouraging environment that makes the transition to university life less daunting for new students. Support, direction, and supervision for the leaders is provided by the Student Experience Team.

- Organizing weekly events every for first year students (highest group attendance and retention)
- Advising students about academia, social and personal problems

### **Astronomy vice president**

Gisborne Astronomical Society Junior Division (G.A.S Jr) | 2018 – 2019

- Member of the Royal Astronomical Society of New Zealand
- Member of New Zealand Students' Space Association

## MAIN INTERESTS & HOBBIES

- Astronomy
- Robotics
- Illustrating and designing
- Karate
- Tinkering/Understanding how devices operate and function
- Surfing and Snowboarding
- Bass Guitar

[References for the all the above positions are available upon request.]

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