

Ryan Oong

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<https://github.com/roong0>

EDUCATION

University of New South Wales (2020 – 2025 expected graduation)

- Bachelor of Engineering (Honours) and Computer Science with a major in Electrical Engineering

EMPLOYMENT HISTORY

Ausgrid Student Electrical Engineer (Dec 2022 – Feb 2023)

- Rotated through multiple departments including Asset management, Network Testing the Control Room to gain exposure to different areas of the company and broaden my knowledge of the energy industry.
- Developed code to accurately test proposed algorithms to detect broken conductors and back tested this on historical data.
- Assisted in the drafting of new Network Standards for stand-alone power supplies

Aurecon Student Electrical Engineer (Nov 2021 – Feb 2023)

- Completed a summer internship in the Transmission and Distribution team and continued working as a casual team member primarily on earthing and bonding.
- Performed stray current mitigation and electrolysis assessment by including calculating allowable voltage limits in accordance with Australian and international standards before conducting the analysis and simulation of earthing system faults using SESTech CDEGs software.
- Engaged with project stakeholders to communicate progress, identify issues, and provide recommendations for improvement
- Performed site visits including soil resistivity testing and current injection testing.
- Assisted in the preparation of engineering design reports, electrical drawings, and schematics across the analysis, design, construction, verification, and validation phases of projects whilst using QA systems.

Woolworths Fruit and Vegetable Team Member (Sep 2018 – Sep 2022)

- Successfully trained several new employees in the operating procedures of the department as well as lead the departments on occasions.

EXTRACURRICULAR ACTIVITIES/PROJECTS

Personal Projects

- Home Power Consumption Monitor

Designed, built and installed a power consumption monitor that can monitor power on up to 3 phases using current transformers and voltage sensors. Data/usage statistics stored on esp32 and outputted to webpage via Wi-Fi.

- Designed, built and configured a NAS for personal storage. Setup VPN on raspberry PI to allow for safer access to storage when on other networks.

UNSW Offworld Robotics Electrical Team Member (Jan 2022 – Sep 2022)

- Designed components such as a CAN bus breakout board PCB. Documented research into component selection including cost, availability and specifications from datasheets before communicating the designs to technical leads.

Personal Portfolio Website (<https://roong.net>)

- Created a personal website using React and Bootstrap CSS and then deployed using Vercel to demonstrate my abilities.

Chip 8 Emulator (<https://chip8.roong.net>)

- Created an emulator for the Chip8 interpreted programming language that is capable of running games such as Space Invaders and Pong.
- Built using Javascript and playable via a HTML page.

Military Bases Map (<https://map-view-6a17d.web.app/>)

- Built a website that displays a map of military bases around the world using Typescript, React and Material UI and successfully deployed using Firestack.
- Obtained JSON data from opensource intelligence before parsing and displaying markers on a map using the Leaflet Library.

SKILLS

C

Python

Java

React

NodeJS

Javascript/Typescript

Git

Verilog

LTSpice