

Lachlan Power

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EDUCATION

The University of Melbourne

Master of Electrical Engineering (Electronics Specialisation)

Feb. 2025 – Present

Bachelor of Science (ElecEng Major)

Feb. 2022 – Nov. 2024

EXPERIENCE

Embedded Software Engineering Intern

Jul. 2025 – Present

Analog Devices

Box Hill, Melbourne

- Designed and benchmarked a Linux kernel driver for hard real-time SPI communication.
- Developed bare-metal STM32 SPI slave firmware with GCC/Make for deterministic timing.

Electrical Draftsman

Feb. 2025 – Present

Production Reality Group

Carrum Downs, Melbourne

- Drafted three industrial control cabinets for automation systems at Yarra Valley Dairy, Austranna and YouFoodz.
- Integrated industrial-grade PLCs, contactors, relays and breakers to ensure strict safety compliance.
- Mentored daily by senior electricians.

Electrical Power Systems Lead

Feb. 2025 - Present

Melbourne Space Program

- Leading the electrical design for an ultra-low-power 1U CubeSat, deployable in low earth orbit.
- Mentoring a small team on PCB design and embedded programming.

Ground Station Lead

Jul. 2025 - Present

ARES Rocketry

- Dramatically increased engagement and output by ensuring student autonomy and inclusion.
- Guiding development of advanced ground systems including SDR transceivers, motorised flight-tracking antennas, student-made spectrum analysers, and a professional 6K live-streaming setup.
- Leading design of a launch console to safely manage fueling and arming operations.

TECHNICAL SKILLS

Software: Altium, KiCAD, EPLAN, Solidworks, Onshape

Hardware: STM32 & RP2040 MCUs; LoRa, XBee and SDR telemetry; CAN-FD, MPPT and Power-regulation ICs

Technical: Reflow soldering, laser cutting, breadboarding/protoboarding, Oscilloscope/logic analyzer debugging

Languages: C/C++, FreeRTOS, Git, CMake, SQL (Postgres), Python, HTML/CSS, MATLAB, Bash, LaTeX

HOBBIES & INTERESTS

Music: Bass, drums, and piano - [click here for a sample of my drumming!](#) Gig experience at many Melbourne pubs.

Paramore & Emo Music: I've a deep love for the entire genre, but I'm particularly attached to Paramore.

Youth Justice: I've attended dozens of police interviews at nearly every police station in Melbourne, as a [Yripp Volunteer](#).

AWARDS & ACCOMPLISHMENTS

IREC: Selected as 1 of 12 from 108 ARES members to represent UoM at the International Rocket Engineering Competition in Texas.

School: First 8 Rower & U19 State Champion, Latin Class Prize, Academic Award (98.2 ATAR), Music Captain.