

Chithi Gunatilake

Work Experience

- 2024–current **Electronics and Controls Lead, ANU Formula Sport, (2026–current)**
- Implementing systems engineering principles in a team environment
 - In charge of 5 engineers, with individual sub-projects
 - Planning and development of non-tractive electronic systems for an Electric Vehicle
 - Upkeep and upgrades on the previous Internal Combustion vehicle
 - Developed technical training programs for new members
- Low Voltage and Powertrain Engineer (2024-2025)**
- Designed safety-critical control circuits
 - Created hardware testing methodology and troubleshooting procedures
 - Onboarded and mentored new members
 - Designed engine-adjacent components in SolidWorks as part of a small engineering team. Assisted in the financial reporting process.
- 2025–current **Payload Engineer, ANU Rocketry**
- Supported the engineering design process for a scientific payload on an AURC rocket
 - Co-designed and assembled a laser control system
- 2021–2022 **Trainee Officer (Officer Cadet), Australian Army, Australian Defence Force Academy**
- Led sections in a field environment
 - Developed section and platoon-level plans for operations
 - Demonstrated leadership under arduous conditions through Leadership Challenges 1 and 2, division-level leadership and followership exercises
 - Trained in personnel management and administration

Education

- 2024–2027 **Bachelor of Engineering (Honours) (Mechatronic Systems), Australian National University**
(expected)
- Strong involvement in multiple student teams and societies
 - Completed Digital Systems and Microprocessors (FPGA programming)
 - Engineers Australia Student Member
 - Member of Physics, Astronomy and Engineering Societies
- 2021–2024 **Bachelor of Science (Physics and Mathematics), Australian National University**
- Graduated 10 JUL 24
 - Completed Number Theory and Cryptography
 - Excelled in experimental physics and data analysis

Skills

- Programming Verilog, Python, C, C++, MATLAB, Rust
- EDA / CAD KiCad, EasyEDA, Altium, Fusion 360, SolidWorks
- Software Git, LaTeX, Linux, Microsoft Office (including Excel)
- Hardware Server administration, computer/server building, circuit design and manufacturing
- Soft Skills Team leadership and mentoring; event planning and logistics; cross-team collaboration