

LIAM DAVIS

MECHANICAL ENGINEERING STUDENT

34 Herbert St, Parkdale VIC 3195 | liamdavis0404@gmail.com | 0490 477 276

SUMMARY

Self-motivated, analytical and adaptable engineering student and maths tutor, with a love of learning and figuring out how things work. I pride myself on my communication, leadership and collaborative skills, as well as my problem solving ability. Through both work and my studies I have gained experience working in a variety of different environments with a diverse range of teams. I look forward to applying what I have learnt, and continuing to develop my skills through this internship opportunity.

EDUCATION

VCE Baccalaureate - Mentone Grammar

Feb 2017 - Nov 2022

- Achieved an ATAR score of 99.15
- Awarded the Beraldsen Prize for Physics for outstanding achievement
- Represented the school in the first Soccer and Table Tennis teams
- Achieved the rank of Cadet Under Officer in the Australian Army Cadets with responsibilities including:
 - Responsible for the Safety, Physiological Needs, and Overall Wellbeing of a Platoon of 15 cadets for a week long camp at Puckapunyal Military Base
 - Ensuring social cohesion and maintaining morale and teamwork of a diverse team of cadets in a remote and demanding environment

Bachelor Mechanical Engineering (Honours) - Monash University

Mar 2023 - Nov 2026

- Achieved a grade average of Distinction
- Relevant coursework in Engineering Mechanics, Systems Engineering, Thermodynamics, Renewable Energy Systems, Programming (Python and Matlab), CAD and Design Optimisation
- Participated in the Warman Design and Build Competition where I worked with a team to design, construct and program a robot to retrieve and deposit objects
 - Integrated mechanical components, sensors and programming to achieve precise functional performance
- Worked with numerous different teams and groups and navigated deadlines, challenging projects and different group dynamics effectively
- Undertaking a minor in Renewable Energy including coursework on PV Solar, Hydropower, Wind and other renewable energy sources

WORK EXPERIENCE

Woolworths Fresh Convenience Team Member

Jan 2022 - Sep 2022

Election Official - 2022 Victorian State Election

Nov 2022

Monash University Science Society Representative

Feb 2023 - Aug 2023

Seasonal Warehouse Associate - 5Ways Foodservice

Dec 2024 - Feb 2025

- Assisted with process coordination and warehouse management
- Gained real world logistics experience, valuable for project optimisation

Private Maths and Physics Tutor

Feb 2023 - Present

- Communicated with 12 students and parents to plan and coordinate tutoring sessions, and update them on their child's progress
- Communicated complex technical concepts clearly to achieve learning and lasting retention of knowledge, a skill transferable to stakeholder communication more broadly
- Developed personalised learning strategies for students with various capabilities, including learning disabilities, to deliver an average improvement in grades of 15%

TECHNICAL SKILLS

CAD - Solidworks (CSWA Certified)	Prototyping and Testing	Renewable Energy
Microsoft Office	3D Printing	Arduino
Python	AI Prompt Design	MATLAB

SOFT SKILLS

Stakeholder communication	Team collaboration	Client Relationship Development
Creative problem solving	Strategic analysis	Report writing and presentation
Critical thinking and analysis	Initiative and accountability	Attention to detail
Eager to learn	Continuous Development	Adaptable

ADDITIONAL INFORMATION

- **Languages:** English, German.
- **Certifications:** CSWA Solidworks Certification, First Aid and CPR Certified.
- **Other Interests/Hobbies:** 3D Printing, Arduino Projects, Paragliding, Soccer, Trail Running
- **Referees:** Available upon request