

ERIN CATE LUMSDEN

SOFTWARE ENGINEER

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ABOUT ME

I am a creative, independent and hardworking individual with a passion for technology. I have a strong work ethic and good organizational skills that ensure I can meet any deadlines or expectations. Adaptivity, teamwork and initiative are qualities that I display in all situations. I completed my Bachelor of Software Engineering at RMIT University in 2024. I am open to a range of work, specifically in automotive or motorsport, including IoT, application development and firmware development.

EXPERIENCE

- | | |
|----------------------------------|--|
| Jan 2024 –
Current | Firmware & Software Engineer – Brightspace AI
I work in the Climate Tech industry developing IoT devices that reduce energy usage and improve occupant health. My role spans building custom web tools and on-device processing scripts in C and Python to transmit data across mesh networks, as well as designing microservices and coordinating Docker containers to support uploads of data to the cloud. I have developed HVAC control algorithms that integrate with Building Management Systems (BMS), maintained full-stack web applications including backend services, user and admin frontends, and managed API integrations for external weather and energy monitoring data. |
| Jan 2022 –
Dec 2024 | Electronics System Head – RMIT Racing FSAE–A Team
Built custom firmware for vehicle in MoTeC M1 Build, including Traction Control, Throttle Mapping and Auto Shifting. Assisted with vehicle assembly, exhaust repacking, carbon manufacturing and engine tuning via MoTeC M1 Tune. Managed a sub-team of engineering students whilst designing and prototyping components before manufacturing PCBs. Built a motorsport grade harness for competition including custom code for PCBs and intensive testing and problem solving on the go. |
| Aug 2024 –
Nov 2024 | Final Year Project – Autonomous Vehicle Datalogger
Built a C# application for an Industry Client. The application connects to an Autonomous Vehicle Datalogger and allows safe scrutineering of the vehicle to deem it's safety condition. Delivered final product to client including test results, automated tests, a release for Linux and Windows, and documentation. |
| March 2023 –
Nov 2024 | Software Developer Intern – Nuvotion Pty Ltd
Built and deployed a server to host database and UI for database to manage parts for PCB design and store results from PCB testing. Assisted with electronics manufacturing and assembly. |
| March 2023 –
Jan 2024 | Full Stack Software Developer Intern – IDOM Innovations
Working in a team of developers to produce web products in the automotive industry, using a wide range of technology to market and sell vehicles. Worked on internal tools to enhance customer interactions by sending automated SMSs and Emails. Stack included AWS, Ruby, JavaScript & React. |

ACHIEVEMENTS

2024	1st Place – ICE Class FSAE–Australaisa <ul style="list-style-type: none">• 1st Place Skidpad• 1st Place Endurance• 1st Place AutoX• 1st Place Efficiency• 1st Place Business• 1st Place Design
2023	11th Place – EV Class FSAE–Australasia <ul style="list-style-type: none">• 11th Place Skidpad• 7th Place Endurance• 10th Place AutoX• 5th Place Efficiency• 17th Place Business• 15th Place Design
2022	2nd Place – ICE Class FSAE–Australaisa <ul style="list-style-type: none">• 1st Place Endurance• 1st Place Design• 1st Place Efficiency
2021	Westpac Young Technologist Scholarship
2021	Telstra Womens Business Circle Education Bursary

References available upon request.

[Email](#) [GitHub](#) [LinkedIn](#)