

# Kelvin Le

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## Summary

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[Kelvin](#) is an **undergraduate Mechatronics Engineer**, pursuing the bachelor degree at **Queensland University of Technology**. He has a strong passion on addressing real-world challenges with an engineering mindset, particularly through the application of robotics.

## Technical Skills

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- **Robotics & Control System:** ROS2 (Docker, ros2\_control framework, ...), **MATLAB & Simulink** (Control).
- **Embedded Systems:** STM32, ESP32, **IOT systems**, AVR Series, Raspberry Pi, **Linux-based Embedded System**.
- **Hardware Design:** **CAD Design** (SolidWorks, Inventor), **Circuit & PCB Design** (Altium Designer, LTSpice)
- **Machine Learning & Computer Vision:** Computer Vision with **OpenCV**, LLM and Machine Learning on **AWS & Google Colab**.
- **Programming Languages:** **Python** (ROS2, Machine Learning, Embedded), **C/C++** (Embedded systems, ROS2 integration, System Programming), **C/C++** (OOP), **HTML/CSS/JavaScript** (Web Development).

## Education

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**Queensland University of Technology**, BS in Mechatronics/Aerospace Jan 2023 – Dec 2026

- GPA: 6.7/7.0 ([Academic Transcript](#))
- **Coursework:** Computer Architecture, Comparison of Learning Algorithms, Computational Theory
- **Achievements & Certifications:** **QUT Dean's Scholar**, Executive Deans' Commendation for Academic Excellence (2023-Now), Virtual Peer Learning Leader (2023-Now)

## Qualifications & Certifications

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[Generative AI with Large Language Models](#) issued by DeepLearning.AI

- **Coursework & Skills:** Computer Architecture, Comparison of Learning Algorithms, Computational Theory

[Introduction to Machine Learning on AWS](#) issued by AWS

- **Coursework & Skills:** Artificial Intelligence, Machine Learning, AWS SageMaker, Large Language Models

## Experience

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**Robotics Engineer Intern**, [QUT Motorsport Design Internship](#) – Brisbane, QLD Nov 2024 - Feb 2025

- Improved vehicle ([QEV-3D](#)) performance by **20%** by replacing the custom ROS2 controller component with built-in controllers from the ros2\_control framework.
- Migrated and optimized the existing ROS2 Humble base to the latest base.
- Ensured **70%** effective of LiDAR point cloud by tuning the ground segmenter & refined LiDAR cone detection.
- Implemented CANBUS package for the vehicle to communicate with the Hardware, ECUs.

**CAD/PCB Designer**, AAA Salon Supply – Brisbane, QLD Jan 2023 – Nov 2023

- Designed and finalized CAD models for salon equipment, including UV lamps and tools, ensuring functionality.
- Validated prototypes and final products, providing design enhancements for improved performance.
- Developed and manufactured PCBs for prototypes using 3D printing and advanced PCB design techniques.

**Robotics/STEM Instructor**, [Junior Engineers](#) – Brisbane, QLD Nov 2023 – Now

- Cooperating with the team to develop a curriculum for the program in (AI, Robotics, web programming).
- Leading classes with < 20 students in varying age groups (7-14) to teach about robotics and programming
- Designed and manufactured PCBs and 3D-printable, assemblable robot parts for teaching materials.

**STEM Lead Instructor, [CodeCamp](#)** – Brisbane, QLD

Nov 2023 – Now

- Working closely with the team to deliver a drones programming 3-day camp with < 20 students.
- Managing after-school classess of Scratch programming for kids aged 7-14.

## Projects

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### Multi-User Drawing Tool

[github.com/name/repo](#)

- Developed an electronic classroom where multiple users can simultaneously view and draw on a "chalkboard" with each person's edits synchronized
- Tools Used: C++, MFC

### Synchronized Desktop Calendar

[github.com/name/repo](#)

- Developed a desktop calendar with globally shared and synchronized calendars, allowing users to schedule meetings with other users
- Tools Used: C#, .NET, SQL, XML

### Custom Operating System

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- Built a UNIX-style OS with a scheduler, file system, text editor, and calculator
- Tools Used: C

## Technologies

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**Languages:** C++, C, Java, Objective-C, C#, SQL, JavaScript

**Technologies:** .NET, Microsoft SQL Server, XCode, Interface Builder