*By submitting this resume for job applications, I confirm that all URLs (highlighted in blue) are safe to access.

Kelvin Le

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Summary

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

- **Robotics & Control System:** ROS2 (Docker, ros2_control framework, ...), MATLAB (Control Simulation).
- **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 and ROS2 integration, System Programming), **C/C++** (OOP), **HTML/CSS/JavaScript** (Web Development).

Education

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

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

Qualifications & Certifications

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

Robotics Engineer Intern, QUT Motorsport Design Intership – 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 lattest 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.

STEM Lead Instructor, Juniour Engineers – Brisbane, QLD — June 2003 – Aug 2003

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

Projects

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 2002

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

Technologies

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

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