

Kelvin Le

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Summary

[Kelvin](#) is an undergraduate Mechatronics Engineer, pursuing the bachelor degree at Queensland University of Technology.

The boilerplate content was inspired by [Gayle McDowell](#).

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**, Generative AI and Machine Learning on AWS & Google Colab.
- **Programming Languages:** C++ , Python, C, Java, MATLAB, **ROS2**, C#, SQL, JavaScript.
- [Here](#), you can find a comprehensive user guide for RenderCV.

Education

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

- GPA: 6.8/7.0 ([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)

Experience

Robotics Engineer Intern, QUT Motorsport Design Internship – Brisbane, QLD Nov 2024 - Feb 2025

- Improved vehicle 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

Software Engineer Intern, Microsoft – Redmond, WA June 2003 – Aug 2003

- Designed a UI for the VS open file switcher (Ctrl-Tab) and extended it to tool windows
- Created a service to provide gradient across VS and VS add-ins, optimizing its performance via caching
- Built an app to compute the similarity of all methods in a codebase, reducing the time from $\mathcal{O}(n^2)$ to $\mathcal{O}(n \log n)$
- Created a test case generation tool that creates random XML docs from XML Schema
- Automated the extraction and processing of large datasets from legacy systems using SQL and Perl scripts

Publications

3D Finite Element Analysis of No-Insulation Coils Jan 2004

Frodo Baggins, *Kelvin Le*, Samwise Gamgee

[10.1109/TASC.2023.3340648](#)

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