

Kyle Wong

kyle.t.wong@sjsu.edu - (408) 891-9709 - San Jose, CA

EDUCATION

San Jose State University

B.S. Computer Science

Present

San Jose, CA

성균관대학교 (Sungkyunkwan University)

Applied Artificial Intelligence

Jun. 2025 - August 2025

Seoul, South Korea

EXPERIENCE

Spartan Racing

Software Developer

Aug. 2025 – Present

San Jose, CA

- Spearheaded redevelopment of a legacy VCU codebase in C, integrating hardware into a unified embedded systems architecture. Consolidated multiple layers and optimized algorithmic time complexity to improve efficiency. Modernized a decade old embedded platform for reliability and scalability.
- Designed a real-time torque vectoring algorithm in C, allocating torque to 4 wheels from physics-based control models. Ensured deterministic execution in a real-time embedded system. Applied algorithm design principles to balance performance and stability under strict time constraints.

Debian

Software Developer

Feb. 2025 – Oct. 2025

San Jose, CA

- Sustained Debian Linux packages by diagnosing crashes and performance regressions across x86 and ARM architectures. With shell scripting, Linux tools, and debugging, I could implement patches and architecture specific fixes.

Longhorn Robotics

Code/Documentation

Sep. 2022 – Sep. 2023

San Jose, CA

- Built Python Code for autonomous and manual robot control, ensured solutions were functional, documented, and compliant with FTC competition standards.