Michael Y. Kersey

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Objective Statement: Computer science student looking for a software internship.

Profiles

Github, Github(old), Website Resume/Portfolio , Leetcode

EDUCATION

B.S., Computer Science August 2023 - December 2026
San Jose State University, San Jose, CA, GPA: 3.94

RELATED COURSEWORK

Data Structures and Algorithms, Linear Algebra, OOP, Info Security, Operating Systems (in progress), Computer Networks I (in progress), Computer Graphics (in progress)

TECHNICAL SKILLS

Software Engineering: git, github, C++, Java, Python, JSON

PROJECT EXPERIENCE

SJSU Robotics (University Rover Challenge Team)

Control Systems Co-lead April 2025 - Present
•Organized and managed controls team recruiting process.
•Troubleshot a CAN bus and then planned, cut, and crimped a new one to replace it.

Member of the Control Systems Subteam October 2023 - April 2025
•Develop device drivers in C++ for chips, such as the drv8825 (stepper motor driver) & tla2528 (GPIO expander).
•Experience reading chip datasheets and knowledge of communication protocols, such as i2c & UART.
•Open source contributor toward libhal (embedded framework the team uses) (tla2528) (stm32 watchdog)

Iron Claw Robotics 972 (First Robotics Competition Team)

Team Mentor August 2023 - Present
•Advising on both technical and non-technical aspects of a 50-person robotics team.
•Providing guidance on task and code structuring and organization.
•Providing training on technical concepts such as Feed Forward and PID or basic programming.

Programming Lead May 2022 - May 2023
•Coordinated with other programming leads to manage programming of a robot during the 3 month build and competition season.
•Led a team of 15 programmers and established code standards and architecture for the team.
•Reviewed and approved roughly 40 pull requests; ensuring quality of updates to the robot.
•Coordinated and developed a training curriculum for new programming team members during offseason.
•Competed against 3,304 teams and finished as a final eight alliance, composed of 4 teams, in the global robotics championship competition (link to record of season).

Member of Programming Subteam August 2020 - May 2022
•Utilized Java to develop code for the robot's climbing mechanism and other subsystems.
•Created a wrapper library for controller inputs, for convenience and clarity, which is still in use.