Michael Y. Kersey

Los Gatos, CA | michaelykersey@gmail.com | LinkedIn

Objective Statement:

Computer science student looking for a software internship.

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

Computer Languages: C++, Java, Python

PROJECT EXPERIENCE

SJSU Robotics (University Rover Challenge Team)
Member of the Control Systems Subteam October 2023 - Present
•Develop device drivers in C++ for chips, such as the drv8825 (stepper motor driver) and tla2528 (GPIO expander).
•Experience reading chip datasheets and knowledge of communication protocols, such as i2c and UART.
•Open source contributor toward libhal (embedded framework the team uses for the rover) (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 entire team.
•Reviewed and approved approximately 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 the first wrapper library for controller inputs, for convenience and clarity, which is still used.

Other Information

Github Accounts: https://github.com/MichaelYKersey, https://github.com/PandaNinja10
Website Resume: https://michaelykersey.github.io/
Leetcode Profile: https://leetcode.com/u/MichaelYKersey/

Python
•Used Python to script tasks such as generating templated text files from a json file and scraping data from a tab complete menu