

Michael Y. Kersey

Los Gatos, CA | michaelykersey@gmail.com | [LinkedIn](#)

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.
- Troubleshoot 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

- Developed device drivers in C++ for chips, such as the drv8825 (stepper motor driver) & tla2528 (GPIO expander).
- Read chip datasheets and applied knowledge of communication protocols, such as I2C & UART.
- Contributed toward libhal (the open source embedded framework the team used) ([tla2528](#)) ([stm32 watchdog](#))

Iron Claw Robotics 972 (First Robotics Competition Team)

Team Mentor

August 2023 - Present

- Advised on both technical and non-technical aspects of a 50-person robotics team.
- Provided guidance on task and code structuring and organization.
- Provided 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.