

Abhay Jani

Embedded & Systems Engineer | San Jose, CA
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Summary

Student engineer building autonomous robotics, embedded sensor systems, and computer vision pipelines. FRC programming lead, Axon R&D intern, USACO Platinum. Open to embedded/systems internships Summer 2027.

Experience

Axon - Computer Engineering Intern

Jun 2026 - Jul 2026 | Arizona

- Developed ML pipelines for computer vision on field hardware
- Prototyped embedded sensor integration for bench validation
- Collaborated on electrical subsystem integration and test documentation

Axon - Research & Development Intern

Jun 2025 - Jul 2025 | Arizona

- Supported EE prototyping, wiring harness assembly, and hardware testing
- Coordinated intern deliverables across mechanical, electrical, and software teams
- Documented test procedures and validation results for R&D reviews

FIRST California - FRC 2854 Programming Team Lead

Jan 2024 - Present | San Jose, CA

- Lead autonomous programming with vision targeting, odometry, and WPILib PID control
- Engineering Inspiration Award - FIRST Championship qualifier (2024)
- EVHS Robotics President; FTC 18715 Captain

Projects

BCI Map - Infrastructure stress dashboard

Python geospatial pipelines; 4,500+ facilities mapped; 2,500+ brief downloads.

Eagles List - Eagle Scout project platform

Next.js/TypeScript; 21 listings; 8-phase completion guide.

Education

Evergreen Valley High School - 2023-2027

Evergreen Valley College - Dual Enrollment, Jun 2024-Present

Skills

C++, Python, Java, TypeScript | Embedded systems, robotics, computer vision | WPILib, FTC SDK, Git, Linux | USACO Platinum