

ISHAN MADAN

+1 (669) 350-7976 | ishan.madan@gmail.com | linkedin.com/in/ishanm0 | github.com/ishanm0
Dedicated and passionate computer science student looking for internship experience in software and robotics.

EDUCATION

University of California: Santa Cruz | June 2025 **Cumulative GPA: 4.00/4.00**

Bachelor of Science in Computer Science | Bachelor of Science in Robotics Engineering

Relevant Coursework: Programming Abstractions in Python, Computer Systems and Assembly

Mission College | June 2021

Dual Enrollment

Relevant Coursework: Multivariable Calculus, Differential Equations, Linear Algebra

University Preparatory Academy | June 2021

Cumulative GPA: 4.20/4.00

High School Diploma

Honors: Presidential Volunteer Service Gold Award, AP Scholar with Distinction, Eagle Scout

EXPERIENCE

Bus Tracker | Santa Cruz, CA Nov 2021 – Present

Founding Software Member

- Creating a transit bus tracking system to update transit agency's live GTFS feeds with bus data and measure passenger embarking/disembarking for agency's internal purposes
- Currently in discussion with Santa Cruz Metro Transit District to deploy prototypes in Metro buses

Slugbotics | Santa Cruz, CA

Oct 2021 – Present

Software and Electrical Team Member

- Researched & wrote parts of proposal for CITRIS Aviation challenge – designed an autonomous drone with SOMARS team to conduct an environmental survey in McLaughlin Natural Reserve
- Currently designing and sourcing components for electrical system of MATE underwater ROV competition, and working on vision-based operation code for autonomous team
- Founding member of combat robotics team – designed and currently building 15lb robot for Sacramento Bot Battles competition

UCSC Rocketry | Santa Cruz, CA

Oct 2021 – Present

Electrical Lead – Avionics Team

- Collaborated on rocket proposal & design review documents for NASA Student Launch Initiative
- Currently leading electrical system design/build process and writing control algorithms for recovery section and adaptive aerobraking section

inAtalent | San Jose, CA

June 2020 – Aug 2020

Intern - STEM

- Led team of interns to develop inAtalent's volunteer portal – used JavaScript Corvid API to interact with databases and manage user information
- Waterfall development model with weekly client check-ins (portal is now live and in use by inAtalent)

FIRST Robotics Competition Team | Los Altos, CA

Dec 2018 – Apr 2021

Team Captain, Programming and Electrical Lead

- Created multiple end-to-end robot programs using declarative Java programming framework, used open- and closed-loop control through user input, hardware sensors, and Python vision processing
- Designed code templates used by programming team and led development of competition-ready software

SKILLS & INTERESTS

Skills: Python, Java, C/C++, Swift, JavaScript, Ruby

Interests: CAD, Taekwon-Do, Bollywood Dance, Machining, Culinary Experimentation, Film Production