

# Holden Adamec

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I love exploring challenging problems and designing high quality software solutions. You'll find me to be a quick learner and eager to work with others.

## EDUCATION

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### University of California San Diego

Computer Engineering Major

- 3.743 GPA
- Clubs: SEDS, ACM

La Jolla, CA

Class of 2024

### Los Gatos High School

- 4.4 GPA

Los Gatos, CA

Class of 2020

## EXPERIENCE

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### Electrical/Software Member

SEDS@UCSD - Bombardier

San Diego, CA

November 2020 - Present

- Designed PCBs to interface an arduino with solenoid valves and provide power to parts of the rocket
- Wrote ground station control software using tkinter for monitoring and aborting tests and launches

### Software Intern

MagikVision

Los Gatos, CA

Summer 2019

- Used OpenCV tracking and number recognition to find frame loss in over 100 broken YouTube videos
- Implemented a binary search to identify where the errors in the video stream occurred and fix them
- Employed YouTube API to extract data about the videos as well as pulling frames for OpenCV analysis
- Created a progressive web app with custom controls for scrubbing through long sports recordings

### Robotics Team Programming Lead

FRC Team 972: Iron Claw

Los Gatos, CA

September 2017 - June 2020

- Managed a 14 student programming team while working with other subteams to create requirements
- Trained more than 20 students in basic programming concepts and control systems design
- Used GitHub Project board and scrum daily standups to ensure smooth development and integration
- Wrote and tuned PID controllers to precisely control integral elements on competition-winning robots

## PROJECTS

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### Discord Digest Bot

Python, MongoDB, Heroku

- Developed functions using mongoose to interface the discord bot with a MongoDB Atlas cluster
- Setup Heroku to host bot and automatically deploy new changes when code is pushed to GitHub

### MagikVision Pitch Viewer

Javascript, PWA

- Utilized YouTube embeds to create a custom video player for viewing each pitch in a softball game
- Built a Node.js backend to pull data from MongoDB so it could be quickly and securely accessed

## SKILLS

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**Languages:** Java, Javascript, HTML, CSS, Bash, Python, C

**Software:** MongoDB, Nginx, Node.js, Git, Unix, OpenCV, Heroku, VIM, PWA, Figma

**Coursework:** Basic Data Struct & OO Design, Linear Algebra, Software Tools & Techniques Lab