

# Alex Zhao

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## Education

**UC Santa Barbara** • *Electrical Engineering*

Santa Barbara, CA

**Aragon High School** • GPA: 4.3, Valedictorian

San Mateo, CA

Notable Courses: Calculus Multivariable Honors, AP Computer Science A, AP Physics C

May 2025

## Experience

**Quo Labs**

San Francisco

**Software Engineer (Contracted)**

Summer 2025 - Fall 2025

- Architected software for [SAM](#), a differential-drive robot
- Used ROS2 and Nav2 Python packages to integrate autonomous movement planning into SAM
- Helped code, troubleshoot, and deploy vision capabilities onto SAM

**Aragon Robotics, FIRST Robotics Competition Team 840**

San Mateo

**Strategy Lead, Vice Software Lead**

May 2024 – May 2025

**Programming Member**

September 2021 – April 2024

- Developed competition code for multiple robots in Java
- Collaborated with designers on robot architecture and functionality
- Planned and executed strategies to maximize scoring potential of each robot
- Mentored incoming robotics students in programming and basic electrical skills
- Set up and wrote in-house FRC programming/strategy documentation to help future 840 programmers

**Alphastar**

San Jose

**Math Problem Writer**

December 2023

- Worked with other high school students to author 6 exams for math competitions

**Foster City Parks and Recreation**

Foster City

**Camp Counselor**

May 2022 – August 2022

- Created and facilitated daily activities for 35 campers aged 7-10
- Described rules and dynamics of activities to ensure comprehension by all campers
- Managed behavior of campers to ensure a fun and happy environment

## Skills & Interests

**Technical:** Python, L<sup>A</sup>T<sub>E</sub>X

**Broad Interests:** Adventuring, Math, Programming, Reading, Chess ([lichess profile](#))

**Specific Interests:** NLP, General Neural Network Architecture, Ping Pong, Differential Eqns

## Achievements and Honors

- AIME Qualifier (2023, 2024, 2025)
- Eagle Scout
- UCSB ACM Bot Poker Tournament Champion



**Figura 1:** My loyal group of stuffed animals