

Elliot Fayman

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EDUCATION

California State University Northridge, Northridge, CA – Class of 2025

- Bachelors in Computer Science

Granada Hills Charter School, Granada Hills, CA – Class of 2021

- Received International Baccalaureate Diploma

ACTIVITIES

Matador Student Design: NASA Minds(2021-Present)

Cube Satellite Attitude Determination and Control Lead

- Created and tuned a closed loop PID controller for a high RPM reaction wheel
- Implemented a software end low pass filter for a 6-axis IMU.

First Robotics Team (2017-2021)

Flywheel Subsystem Lead

- Developed computer vision software for tracking reflective targets
- Devised and implemented a robust control system for a high speed flywheel
- Managed a diverse team of electrical, mechanical, and software engineers

Outreach and Community Service Lead

- Created and fostered 6 robotics school programs at local elementary schools
- Managed over 40 high school students including making sure they had proper transportation and teaching materials for their associated after school robotics program
- Introduced block based programming to over 250 Elementary school students

FSAE (2021-Present)

Systems and Controls Intern

- Implemented data collection and processing software for racing simulation rig.

ISA (2022-Present)

Instructional Student Assistant

- Tutor college students taking a biology based calculus course
- Participate in professional development meetings
- Grade student classwork and tests

Experience

Advanced programming experience in Java (Adv. data structures & GUIs), python, and C (Arduino). Experience with electrical work (soldering, crimping, wiring, etc), experience working with Computer Aided Design software (Solidworks) and experience with fabrication work (Mill & lathe).

Awards

Dean's List Semi Finalist First Robotics

- Awarded to two high school students that have demonstrated teamwork, graciousness, cooperation, comradery, and professionalism throughout their community

Valedictorian

- Awarded to high school students that have demonstrated extraordinary academic excellence