

# Drew Avendano

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## Education

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**San José State University**  
*Student - B.S. Aerospace Engineering*

**San Jose, CA**  
Expected Graduation: May 2028

**Cosumnes Oaks High School**  
*Student - Architecture, Design, & Engineering Pathway (A.D.E) – GPA: 3.8*

**Elk Grove, CA**  
Graduated: May 2024

## Experience & Leadership

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**Spartan Racing Baja SAE – Treasurer & Member**

**Aug 2024 – Present**

*Manage club finances and ensure timely tracking of expenses and budgets*

- Supported vehicle design, fabrication, and team logistics for nationwide competitions
- Sponsor communication and help recruit and onboard new members

**FIRST Robotics (FRC Team) – Manufacturing Lead & Team Captain**

**Jan 2021 – May 2024**

*Managed manufacturing operations, team scheduling, and technical workflows*

- Maintained machinery and trained team members on safe and effective practices
- Led sponsor outreach and fundraising efforts to keep the club financially stable
- Acted as team spokesperson at community events and student outreach efforts

**A.D.E Internship – Student Technical Assistant**

**Aug 2023 – May 2024**

*Assisted faculty in building a hands-on learning environment for engineering students*

- Supported classrooms by troubleshooting technical issues and maintaining equipment
- Represented the engineering program at student tours and school functions

## Personal Projects & Technical Experience

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**Custom \$200 Tabletop CNC**

- Senior capstone project for high school engineering pathway. Designed and built a low-cost CNC mill using an Arduino CNC shield to control 3 axes of motion. The frame was made from 3D-printed parts and aluminum 2020 extrusions, with a handheld router as the cutting tool. Capable of milling wood and aluminum for precise fabrication.

**Electric Bike Restoration + Conversion**

- Restored a used bicycle and built a homemade electric powertrain using repurposed electric scooter components. Integrated dual 12V batteries, motor controller, and throttle for both pedal and electric-powered motion. Fabricated mounts and wiring harnesses to retrofit the system safely.

**Web Design & Development**

- Self-taught in HTML, CSS, and JavaScript. Built and maintained websites for personal use, FRC, Baja, and external clients. Learned entirely through online tutorials, documentation, and literature.

**Electronics Repair & Custom Retrofits**

- Repaired dozens of personal electronics, including laptops, desktops, and small consumer devices, and experienced in diagnostics, soldering, part replacements, and retrofitting with 3D-printed components. Most projects were done for free to support friends, family, and local teams.

**Project Portfolio:**

- andrewavendano.org

## Skills

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- Interpersonal: Friendly, organized, punctual, and professional
- Technology: Microsoft Office, Google Workspace, Windows, Linux
- CAD & Design: Onshape (4 years), Fusion 360 (4 years), SolidWorks (2 years), Inventor (1 year)
- Soft Skills: Self-motivated, problem-solver, fast learner, works well in teams