

Arnav Magadala

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Education

California Polytechnic State University

Bachelor of Arts in Mechanical Engineering

San Luis Obispo, CA

Sep 2024 – May 2028

Work Experience

Prototype Vehicles Laboratory (PROVE)

Jan 2025 – Present

San Luis Obispo, CA

Manufacturing Engineering Lead (Sep 2025 – Oct 2025)

- * Used SolidWorks CAD software to dimension a motor and designed wheel spacers to match those dimensions
- * 3-D printed a temporary version and tested if it fit wheels and motor dimensions
- * Manufactured a final version using aluminum stock, water jet, and lathe

Mechanical Design Engineering Lead (Feb 2025 – Sep 2025)

- * Designed a temporary inverter motor mount using SolidWorks CAD software
- * Manufactured a temporary lid for a battery box using wood and bolted inverter motor

Vehicle Safety Engineering (Oct 2025 – Present)

- * Designed and installed a front crash structure using honeycomb aluminum and plastic

Thermal Test Engineer (Jan 2025 – Feb 2025)

- * Researched and designed a cooling test procedure for the electric car
- * In process of planning out a design for motor cooling system
- * Researching the application of NACA ducts to improve cooling efficiency and vehicle systems

Cal Poly Racing- Formula SAE

Sep 2024 – Present

Mechanical Design Engineer

San Luis Obispo, CA

- * Used Siemens-NX CAD software to redesign brake pedal into curved design
- * Improved normal force distribution and driver ergonomics
- * Used Siemens-NX CAD software redesign throttle pedal to decrease unnecessary weight to improve speed of the car

ItoI Data

Aug 2023 – Sep 2023

Moorpark, CA

Project Researcher and Coder

- * Identified local businesses with limited data accessibility
- * Identified ways that AI could improve their websites and current uses of different AI tools
- * Created a website that scrapes online data to quickly consolidate online company information

Code Ninjas

Aug 2023 – Nov 2024

Simi Valley, CA

Coding Instructor

- * Taught children different coding languages, robotics, and problem-solving skills
- * Communicated with different schools to set up learning programs and events

Volunteering/ Extracurriculars

Cal Poly Indian Students Association |Logistics Lead

Sep 2025 – Present

- * Coordinate with the school to set up events

African Library Project (ALP) |Project Lead Manager

June 2020 – Present

- * Led a team of 20+ volunteers, coordinating logistics and outreach
- * Collected 3,000+ books for a new library in Lesotho

Skills

- **Software:** NX, SolidWorks, Fusion, BILD, Excel
- **Programming:** Python, MATLAB
- **Soft Skills:** Leadership, Team Management, Public Speaking

Awards

- **Cal Poly Dean's List Award:** cumulative GPA – 3.5
- **Cal Poly Leadership Award:** Recognized for completing Emerging Series course and school community service
- **Sigma Phi Epsilon-Balanced Man:** Recognized for leadership, academic excellence, and personal development