Reet Nahal

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EDUCATION

American River College | Sacramento, CA
A.S. in Mechanical Engineering (UC Transfer Track) | Expected transfer: Fall 2028
Affiliations: MESA (Mathematics, Engineering, Science Achievement) Scholar
Programs: NASA Community College Aerospace Scholars (NCAS), 2026

Natomas Charter School | Sacramento, CA
Graduation: June 2026 | GPA: 4.5 | National Merit Scholar

TECHNICAL SKILLS

- **CAD & prototyping:** Fusion 360, Onshape, 3D printing, MIG welding, prototyping
- **Hardware & electronics:** Arduino, Raspberry Pi, sensors, motor drivers, microcontrollers
- **Programming:** Python, C++, HTML, JavaScript, Google Apps Script

EXPERIENCE & PROJECTS

California Air Resources Board (CARB) | Sacramento, CA
Student Intern, Portable Equipment Registration Program (PERP) | 11/2026 – Present

- Reviewed engine registration applications, verified specifications and emissions certifications, and helped engineers maintain compliance records.

American River College Design Hub | Sacramento, CA
Student Intern | 01/2023 – Present

- Communicated project updates to clients and delivered completed technical work.
- Designed accessible webpage layouts and wrote custom automation scripts.
- Worked with a teammate to measure a tool changer fork with calipers, revise its CAD model, and test 3D-printed versions on the client’s toolhead. Reduced the cost from $20 to $0.50 per fork.

Baja SAE
Team Member | 08/2026 – Present

- Collaborated on roll cage and brake component designs in Onshape. The team added a joint to meet a frame member length limit.
- Notched and fitted chassis tubes, helped weld the assembly, and used custom 3D-printed fixtures.

Autonomous Object-Following Rover | Personal Robotics Project
Independent Design | Summer 2026

- Designed a mobile robot with a Raspberry Pi and motor driver.
- 3D-printed the chassis from my Fusion 360 design and purchased the sensors. Rover code is available for the next stage: mounting the sensors and testing the system.