

# DIEGO MIGUEL REYNOSO RAMOS

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## EDUCATION

### University of California, Los Angeles (UCLA)

Los Angeles, CA

Pursuing B.S., Aerospace Engineering | GPA 3.8

June 2027

- Student Organizations: Center for Excellence in Engineering & Diversity (CEED), Society of Latinx Engineers & Scientists (SOLES), and Design Build Fly (DBF).

### East Los Angeles College (ELAC)

Monterey Park, CA

AS., Mathematics | GPA 3.6

June 2024

## TECHNICAL EXPERIENCE

### UCLA Energy and Propulsion Laboratory

Los Angeles, CA

Undergraduate Researcher

May 2025 - Present

- Collected and analyzed shear-layer velocity data via hot-wire anemometry, using MATLAB to evaluate turbulence and jet interactions for airbreathing engine applications.
- Designed and modeled custom calibration and measurement components in CAD (Fusion/Solidworks) to improve accuracy and efficiency of experimental setup.
- Collaborate directly with faculty and international researchers from Universidade Federal Fluminense Department of Mechanical Engineering in Brazil.

### Rocket Project

Los Angeles, CA

Team Lead

August 2024 - November 2024

- Led a 3-person team in the design-build-test cycle of a G-class rocket, coordinating fabrication, integration, and launch operations.
- Directed OpenRocket simulations to evaluate stability and altitude performance, guiding design refinements before fabrication.
- Designed and manufactured flight-tested nose cones and fins in SolidWorks, iterating several fin sets with fiberglass/epoxy and carbon fiber layups.

### Mars Rover Project, 2024 UCLA HAcK Competition

Los Angeles, CA

Manufacturing Lead

July 2024

- Developed a remotely controlled rover equipped with a working camera along with humidity, temperature, and ultrasonic sensors, all accessible through a custom-built website.
- Designed and fabricated chassis, claw, and arm mechanisms for payload retrieval.

## WORK EXPERIENCE

### MESA at East Los Angeles

Monterey Park, CA

Lead Mathematics Tutor

July 2023 - September 2024

- Tutored university level Mathematics, Chemistry, and Physics, collaborating with staff to enhance student success.
- Guided group tutoring sessions for up to 8 students in Physics, facilitating collaborative problem-solving and delivering mini-lectures to reinforce key concepts.

### McDonald's

Huntington Park, CA

Shift Lead

August 2022 - July 2024

- Supervised 10+ employees per shift; trained new staff on workflow, safety, and customer service.
- Oversaw daily transactions (~\$15K) with accuracy and speed.

## RELEVANT COURSEWORK

- MATLAB Programming, Introduction to Astronautics, Analysis of Aerospace Structures, Flight Mechanics, Stability, and Control of Aircraft, Thermodynamics, Transport Phenomena, Fluid Mechanics, Aerodynamics, Circuits, Materials Science, Statics, Strength of Materials, Dynamics.

## SKILLS & INTERESTS

Skills: SolidWorks, Arduino, Fusion, HTML/CSS, Onshape, 3D Printing, CFD: COMSOL, Laser Cutting, Machining, Fiberglass Fabrication, Soldering, Mechanical Design, CAD Manufacturing Processes, Prototyping, and Teamwork.

Interests: Powerlifting, Running, Manufacturing Processes, Aerodynamics, and Rocketry.