

# DIEGO MIGUEL REYNOSO RAMOS

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## EDUCATION

**University of California, Los Angeles (UCLA)**  
*Pursuing B.S., Aerospace Engineering | GPA 3.8*

**Los Angeles, CA**  
*Expected June 2027*

**East Los Angeles College (ELAC)**  
*AS., Mathematics | GPA 3.6*

**Monterey Park, CA**  
*June 2024*

## TECHNICAL EXPERIENCE

**UCLA Energy and Propulsion Laboratory**  
*Undergraduate Researcher*

**Los Angeles, CA**  
*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) to improve accuracy and efficiency of experimental setup.

**Design Build Fly (DBF)**

**Los Angeles, CA**

*CAD, Aerodynamics, and Structures Subteams member.*

*May 2025 - Present*

- Performed multiple ANSYS FEM simulations on components and executed static/strain tests to validate models.
- Ran CFD studies in COMSOL/SIMSCALE to characterize flow and compute aerodynamic loads; validated results against wind-tunnel/field data
- Modeled aircraft components in SolidWorks for assembly and fabrication.

**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.
- Designed and manufactured flight-tested nose cones, fins, and bodytube in SOLIDWORKS , fiberglass/epoxy and carbon fiber layups.

**Mars Rover Project, 2024 UCLA HAcK Competition**

**Los Angeles, CA**

*Manufacturing Lead*

*July 2024 - 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**  
*Lead Mathematics Tutor*

**Monterey Park, CA**  
*March 2023 - September 2024*

- Tutored university level Mathematics, Chemistry, and Physics, collaborating with staff to aid student success.
- Guided group tutoring sessions for up to 8 students in Physics, facilitating collaborative problem-solving.

**McDonald's**  
*Shift Lead*

**Huntington Park, CA**  
*August 2022 - July 2024*

- Supervised 10+ employees per shift; trained new staff on workflow, and oversaw daily transactions (~\$15K).

## 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

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