

# Christopher Ochoa

McAllen, TX | (956) 451 - 6889 | Christopher.M.Ochoa-1@ou.edu

---

## EDUCATION

University of Oklahoma | Norman, OK

Aug 2021 - Expected May 2026

Gallogly College of Engineering & Honors College

B.S Aerospace Engineering with Honors on Accelerated Masters Track | GPA: 3.51

LinkedIn: [www.linkedin.com/in/chrisochoaa/](http://www.linkedin.com/in/chrisochoaa/)

---

## EXPERIENCE

**SOONER ADVANCED MANUFACTURING LAB** | Undergraduate Researcher | Norman, OK 2025 – Present

- Designing and fabricating regenerative-cooling rocket nozzles with lattice-structured cooling channels using GE M2 Series 5 metal additive systems.
- Utilizing PanX to develop build strategies, optimize lattice geometries, and evaluate printability and structural performance.

**UNDERGRADUATE RESEARCH AND CREATIVE ACTIVITY** | Undergraduate Researcher | Norman, OK 2024 – Present

- Conducted funded research on additive manufacturing of regenerative-cooled rocket nozzles.
  - Performed CFD and structural simulations to evaluate thermal and mechanical behaviour of lattice-cooled nozzle designs.
- 

## CAMPUS & LEADERSHIP INVOLVEMENT

**DESIGN BUILD FLY TEAM** | Structures Lead | Norman, OK 2024 – Present

- Leading the structures sub team in the design, analysis, and fabrication of a competition RC aircraft.
- Overseeing CAD modeling, FEA, and composite layup process to ensure structural integrity and mission.

**BOOMER ROCKET TEAM** | Team Member | Norman, OK 2023 – Present

- Designed, built, and tested low-powered and high-power rockets, incorporating fiberglass layups and predictive performance modeling.

**PRESIDENTS COMMUNITY SCHOLARS** | Active Member 2021 – Present

- Selected as one of the top 100 students from over 10,000 applications for academic excellence and community leadership.
- Developed leadership and service skills through mentorship programs, keynote engagements, and community service projects.

**SIGMA CHI FRATERNITY** | Historian/Philanthropy Chair 2021 – Present

- Served as chapter Historian and Philanthropy Chair, overseeing event documentation and coordinating community fundraising.

**OKLAHOMA DUCKS UNLIMITED** | Social/Merchandise Chair 2024 – Present

- Support wetland conservation and habitat restoration initiatives while organizing social events and managing chapter merchandise operations.
- 

## PROJECTS

**GLIDER** May 2024

- Designed and manufactured a lightweight glider out of balsa wood, with a 4 ft wingspan, a raw egg payload, and total weight under 4 lbs.
- Placed 1<sup>st</sup> in the Aerospace Engineering program and achieved flight distance of 80 ft.

**WEATHER BALLOON** Aug. 2020

- Designed, built, launched, and retrieved a custom payload train that reached an altitude of 85,000 feet.

**AUTOMATIC LIGHT SWITCH** Nov. 2021

- Developed a motorized, 3D-printed light switch cover controlled by an Arduino to automate light functions.
  - Selected as a class finalist to present to the rest of the engineering school.
- 

## EXTRACURRICULAR ACHIEVEMENTS

**EAGLE SCOUT** | Boy Scout Troop 7 Aug 2017 – Aug 2021

- Led a community service project to rebuild the interior of a barn for a no-kill animal shelter, coordinating a team of volunteers and managing project logistics.

**INTERNATIONAL BACCALAUREATE (IB) DIPLOMA** Aug 2017 – May 2021

- Met rigorous standards set by institutions of higher learning around the world
- 

## SKILLS & HOBBIES

**Design/Software:** SolidWorks, ANSYS Mechanical, ANSYS Fluent, Open Rocket, C++, Python, MIG welding, CNC milling machine, CNC plasma cutter, MATLAB, Additive Manufacturing, PanX FEA

**Hobbies:** Offshore/Inshore Fishing, Camping, Backpacking, CrossFit

**Languages:** English: Professional Proficiency  
Spanish: Working Proficiency