

# MANTHAN CHILWERI

## AEROSPACE ENGINEER

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| OPT Authorization Required



### PROFESSIONAL SUMMARY

Aerospace engineering student with experience in CAD modeling, control systems, and numerical analysis. Skilled in research, machining, and programming with a focus on innovative aerospace design. Strong leadership and project coordination abilities. Seeking opportunities to apply engineering expertise and problem-solving skills.

### EDUCATION

- **University of Oklahoma – Norman, OK**  
*Bachelor of Science in Aerospace Engineering* | GPA: 2.93  
Relevant Coursework: Aerodynamics, Aerospace Propulsion, Astrodynamics, Control Systems, Aerospace Systems Design

### TECHNICAL SKILLS

- CAD/CAM Software: AutoCAD, SolidWorks, ICAM, CFD Software: ANSYS
- Programming: MATLAB, C++
- Numerical Data Analysis & Technical Report Writing
- CNC Machining & Waterjet Cutting
- Microsoft Office Suite (Excel, PowerPoint, Word)

### PROJECTS

#### NASA USLI 2025 Rocket Project (Aerodynamics Lead – Boomer Rocket Team)

- Designed and analyzed aerodynamic components to improve rocket performance.
- Ran CFD simulations and used results to guide design decisions.
- Built CAD models and created technical drawings for fabrication.
- Helped write detailed engineering reports for competition milestone documentation.
- Ensured manufacturing readiness and structural integrity of the final design.

#### Autonomous Interactive Robotics Lab – University of Oklahoma | 2023

- Applied machine learning and SLAM for drone automation.
- Designed drone landing components using control systems.

### EXPERIENCE

- **Student Manager – Wagner Dining Hall, University of Oklahoma | 2021 – 2025**
  - Promoted twice; managed teams, trained staff, and ensured smooth daily operations in a high-paced environment.
- **Intern – Exotic Stone Victoria BC | August 2023**
  - Programmed CNC machines (Donatoni, Breton, Flow Waterjet) using CAD drawings.
  - Verified fabrication specs and operated milling machines and automated saws.

### ACHIEVEMENTS & EXTRACURRICULARS

- Tripoli Rocketry Association – **Level 1** High Powered Rocketry Certification | 2025
- **H.H. Sheikh Hamdan Bin Rashid Al Maktoum Award** for Distinguished Academic Performance | 2014
- Model United Nations (MUN), World Scholars Cup, Round Square International Summit