**PROFESSIONAL SUMMARY**

**MANTHAN CHILWERI**

**AEROSPACE ENGINEER**

(405)-541-4253 | mcchilweri31@gmail.com | Norman, OK | <https://mcchilweri31.github.io/Portfolio/#> | **OPT Authorization Required**

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