



Aman Shukla

Roll No.: 20236024

Bachelor of Technology

Mechanical Engineering

Motilal Nehru National Institute of Technology Allahabad,
Prayagraj

+91-6393071117

shukaman1535@gmail.com

aman.20236024@mnit.ac.in

Aman-15005

aman-shukla-16586024b

EDUCATION

•Motilal Nehru National Institute of Technology Allahabad

2027

B.Tech. Mechanical Engineering

CPI: 8.11 (till 5th semester)

•Rani Laxmi Bai Memorial School

2022

CBSE Board , Uttar Pradesh

Percentage: 96.4

•Rani Laxmi Bai Memorial School

2020

CBSE Board , Uttar Pradesh

Percentage: 96.6

EXPERIENCE

•Summer Intern

June 2025 - July 2025

TATA Motors

Lucknow

- Analyzed five years of plant incident data to identify safety trends and proposed actionable recommendations to enhance overall plant safety and risk mitigation.
- Worked on analyzing and documenting propeller shaft fitment-related incidents to support process improvements and reduce assembly line failures.

PROJECTS

–Turbojet Engine Design and Analysis

November 2025 - March 2026

Design and Analysis

- Designed and Assembled a turbojet engine and investigated working principles of compressor, combustor and turbine stages for performance understanding.
- Conducted mechanical analysis of selected components using FEM techniques to assess stress, deformation and structural reliability under operating conditions.

–Formula SAE Chassis Analysis

March 2025 - October 2025

Design and Analysis

- Reverse engineered Formula SAE car chassis using dimensional extraction and recreated CAD model.
- Conducted FEA-based structural analysis to assess torsional rigidity, stress concentration and safety factors.

–Vision Guided Rover

Aug 2024 - April 2025

Design and Fabrication

- Designed and 3D printed the rover chassis using Solidworks, led mechanical integration and hardware assembly.
- Implemented vision based navigation using ArUco markers and PID control for autonomous path following.

TECHNICAL SKILLS AND INTERESTS

Programming Languages Python, Matlab

CAD Software AutoCAD, SolidWorks, Fusion 360

Simulation and Analysis ANSYS, Simulink

Soft Skills Problem Solving, Time Management, Leadership, Communication

Areas of Interest IC Engine, Design and Analysis, CFD, Motorsport Engineering

POSITIONS OF RESPONSIBILITY

–Coordinator, SAE Club [Transmission and Suspension Department]

(Ongoing) Feb-2024

–PR, Culrav-Avishkar

(Ongoing) Nov-2024

–Member, Project Mentor Aero-Modelling Club

(Ongoing) Jan-2024

ACHIEVEMENTS

–Finalist Techkriti'25 IIT-Kanpur in event organised by Boeing

March 2025

–First Position in CozmoClench- Avishkar 2024 built RC bot under the event Robomania

March 2024