Surya Prakash Gupta
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Bachelor of Technology
Mechanical Engineering
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LinkedIn Profile

Education:

- **Madan Mohan Malaviya University of Technology, Gorakhpur** *2023-2027*
  Bachelor of Technology (Mechanical Engineering) CGPA: 8.22
- **Blooming Bud Public School, Ayodhya** *2022*
  XII CBSE, Uttar Pradesh Percentage: 91.0
- **S. K. Academy Ayodhya** *2020*
  X CBSE, Uttar Pradesh Percentage: 81.6

Experience:

ADRDE, DRDO, Agra *May 2026-June 2026*
Intern Agra
- Studied parachute system design and performance through technical literature review, manufacturing processes, and material selection.
- Designed and analyzed a parachute recovery system for safe payload delivery, performing aerodynamic sizing, stability assessment, structural calculations, and material selection.
- Supported CAD-based design activities using SolidWorks for aerospace engineering applications.

Indian Railways (Modern Coach Factory) *June 2025-July 2025*
Intern Raebareli
- Acquired industrial exposure to railway coach manufacturing and assembly operations.
- Studied fabrication, welding, sheet metal processing, and bogie assembly systems.
- Developed understanding of suspension systems, braking mechanisms, and maintenance practices.
- Prepared technical observations and engineering documentation during industrial training.

Projects:

- **Design & Analysis of Variable Camber Morphing Airfoil** *Jan 2026 – ongoing*
  - To design a servo-actuated variable camber morphing airfoil for enhancing aerodynamic efficiency and flight adaptability of UAVs.
  - To investigate the effects of camber variation and angle of attack on lift, drag, and lift-to-drag ratio using CFD analysis in ANSYS Fluent.
  - Coordinating project planning, task allocation, and design review activities within a multidisciplinary team.
- **CAD Model of Drone Frame** *July 2025*
  - Designed a modular drone frame using parametric modeling techniques in SolidWorks.
  - Developed detachable motor, arm, and hub modules to improve scalability and maintenance.
  - Performed topology optimization studies to reduce weight while maintaining structural integrity.

Skills:

Technical: SolidWorks, AutoCAD, Ansys, MATLAB, Python, C – programming.
Coursework: Mechanics of solids, Thermodynamics, Fluid mechanics, Strength of materials, Manufacturing sciences, Mechatronics, Theory of machines, Machine Design, Production and Industrial Engineering, Additive Manufacturing.
Minor Degree in Entrepreneurship & Startups
Soft Skills: Problem Solving | Analytical Thinking | Team Collaboration | Technical Communication | Leadership | Time Management.
Areas of Interest: Mechatronics System, Vehicle dynamics, 3D printing technology, FEA, Project Planning, CFD.

Position of Responsibility:

- **Student Co-Chair, ASME** *Feb2026 – ongoing*
- **Member,** Tech Srijan- The Annual Techno-Management fest of **MMMUT, Gorakhpur** *November 2024*

Achievements:

- Among **Top 5** in **180** student batch in Mechanical Engineering Branch.
- Consistently ranked among the top students in my class during both high school and intermediate education.
- **1st position** in Art competition organized under an Environment Protection Event.