



Ali Asgar Bohra
Roll No.: 23MEB0F07
Bachelor Of Technology
Mechanical Engineering
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EDUCATION

- National Institute of Technology, Warangal** 2023-2027
Btech Mechanical Engineering CGPA/Percentage: 7.0/10
- International Indian School, Riyadh** 2023
Central Board of Secondary Education CGPA/Percentage: 92/100

EXPERIENCE

- SIEMENS Centre of excellence** May-June, 2025
Intern
 - Worked with Simcenter 3D on CFD, thermal, and structural simulations as part of a multiphysics airfoil analysis.
 - Gained experience in digital manufacturing by designing and optimizing a scooter plant layout using Technomatix Plant Simulation.
 - Applied simulation-driven engineering workflows, material modeling, and real-world application of CAE tools.
- Mechaholics club** 2023-Present
Braking department lead
 - Performed thermal and structural analysis on ATV brake discs; calculated minimum stopping distance and braking force requirements.
 - Contributed to upgrading the braking system with hydraulic disc brakes, focusing on proper line bleeding and performance optimization.
 - Supported design validation and testing to ensure safe and effective braking under off-road conditions.

PERSONAL PROJECTS

- Multiphysics analysis of NACA 2412 Airfoil** June 2025
Performed structural, thermal, and fluid flow simulations on a NACA 2412 airfoil using Simcenter 3D.
 - Compared Aluminium 2014, Ti-6Al-4V, and CFRP (self created) for deformation, thermal response, and aerodynamic performance.
 - Assessed material suitability based on stress, heat resistance, and lift under realistic loading conditions.
- Scooter Plant Simulation – Siemens Technomatix** June 2025
Simulated and optimized a scooter manufacturing plant to improve process efficiency and resource utilization.
 - Reduced production bottlenecks by analyzing workflows and optimizing workstation layouts, improving throughput.
 - Enhanced energy efficiency by monitoring and balancing electricity consumption across operations.
- Portable heavy load lifter** March 2024
Developed a portable heavy load lifter as part of a design thinking course.
 - Designed and prototyped a portable wheeled load-lifting device (3× manual effort reduction) with focus on CAD modeling, mechanical design, and testing to enhance portability, user safety.

TECHNICAL SKILLS AND INTERESTS

Languages: Hindi, English

Technical Skills: AutoCad, Fusion360, Siemens NXCad (integrated), Siemens Technomatix

Soft Skills: Communication, Public speaking, Leadership, Management

Areas of Interest: Mechanical design, product development, Aircraft systems and aerodynamics

POSITIONS OF RESPONSIBILITY

- Junior Under Officer** National Cadet Corps 2023-2026
- Vice president (Public Relations)** Toastmasters Riyadh 2017-Present

ACHIEVEMENTS

- Best Debater** Winner, Regional Level Debate Competition–Toastmasters Saudi Arabian Chapter 2019
- Academic Excellence** Recipient, Academic Excellence Award – Gulf One Media 2023
- Best Cadet** Awarded for leading 600 cadets as Camp Adjutant during NCC annual Camp 2025