



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

### National Institute of Technology, Warangal

Btech Mechanical Engineering

2023-2027

CGPA/Percentage: 7.0/10

### International Indian School, Riyadh

Central Board of Secondary Education

2023

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 Technomatrix 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 Tecnomatix

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 (3x 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 NX Cad (integrated), Siemens Tecnomatix

**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