




# HIMANSHU KUMAR SINGH

**B.Tech**

Mechanical Engineer

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 Gwalior, MP

## OBJECTIVE

I am enthusiastic, dedicated and passionate Mechanical Engineering with a strong foundation on design, material & production, want to use my knowledge in practical real world application. I am looking for an internship in industrial environment to get some practical experience & learn from professionals.

## ACADEMIC PROJECTS

### Team Scavengers, SAE India Collegiate Club, MITS

- did improvements in the present steering system.
- tried different combinations of caster & camber angles, through which it enhance steering mechanism, upliftment while low speed turning. Toe in -Toe out for better ground traction control.

### Fabrication of Belt Grinder

- Fabricated a belt grinder using knowledge of manufacturing processes like welding, grinding, drilling, forging, metal cutting. under the skill based mini project.

### Multi-leaf spring prototype

- Fabricated a reliable shock absorber using cold forging, welding, and drilling processes. explored the mechanical properties and structural dynamics of springs.

## RESEARCH WORKS

### Electric Go-Kart: Fabrication of a Go-Kart with emphasizing Aerodynamic Spoiler:

- Conducted research on the fabrication of an electric Go-Kart, focusing on the integration of an aerodynamic spoiler to enhance stability, performance, and energy efficiency through optimized airflow dynamics.

### Optimization of Composite Material for Submersible Vehicle:

- Under my minor project, currently working on studying some materials and trying to create new materials which are better for deep dive submersible vehicle.

## EDUCATION

### Bachelor's of Technology in Mechanical Engineering

- CGPA: 7.61

Madhav Institute of Technology and Science, 2022-Present

### Intermediate (PCM)

- 83%

Kendriya Vidyalaya No.2, AFS Gwalior 2021

### Secondary

- 85.4%

Kendriya Vidyalaya No.1, AFS Naliya, Bhuj 2019

## CERTIFICATION

- **Summer Internship, 2023**  
(Real time Application of Artificial Intelligence)
- **Codahaton2.0**
- **Hindustan Motorsport season 03**

## EXTRA CURRICULAR

### Team Scavenger, SAE India Club, MITS

- Worked in the team as a member of steering department.

### Alumni Cell Mechanical Department

- Graphics Team Member in the cell
- Closely worked with the management team during the webinars and seminars

### Training and Placement Cell

- Worked as a student co-ordinator for organizing placement drive.

## SKILLS

### Technical:

- Manufacturing Technology  
(Metal Cutting, Welding, Casting, grinding)
- Moderate level C, C++ , PYTHON
- logical Problem Solving & numeric ability

### Software

- SolidWorks, Autodesk inventor( design)
- ANSYS workbench
- MS PowerPoint, Word
- Canva