SACHIN NAGAR

Mechanical Engineer

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ABOUT ME

Passionate about cutting-edge research and technological innovation, with a strong foundation in design, prototyping, and problem- solving. Skilled in SolidWorks, computational modeling, and emerging technologies, with a keen interest in developing sustainable and impactful solutions. Seeking opportunities to contribute to advanced research and development initiatives.

EDUCATION

BACHELOR OF ENGINEERING
Rajiv Gandhi Proudyogiki Vishwavidyalaya,Bhopal
Mechanical Engineer(2022-2025)
CGPA- 7.79

12 TH (MP BOARD)
Model School Ichhawar
Percentage 76.2%
2020-2021

10 TH (MP BOARD)
Model School Ichhawar
Percentage 77%
2018-2019

SKILL

- Autocad 2d and 3d
- Solid Work
- Creo
- NX
- Autocad Fusion 360
- ANSYS (Structural Analysis)
- Hyper mesh (Meshing)
- MS Office
- 3D Printing

WORK EXPERIENCE

Maulana Azad National Institute of Technology Bhopal (5 MONTHS)

At MANIT Bhopal, I am currently assisting in academic research projects that involve mechanical system design, product development, and CAE analysis. My contributions include parametric modeling, material selection, and simulation studies, aligned with both government-funded and institute-led initiatives

IVEYS Innovations Private Limited (2024-2025)

Over the past year at IVESY, I have been actively involved in R&D-focused mechanical design projects, including the development of precision components and assemblies for industrial applications. My role primarily includes 3D modeling, design optimization, and preparation of manufacturing drawings using SolidWorks, Creo, and Fusion 360, adhering to DFM (Design for Manufacturability) and GD&T standards.

CAD-CAE internship at Eleation (3 Months)

During my CAD-CAE internship at Eleation, I participated in simulation-driven design tasks, where I executed FEA-based structural and thermal analysis using ANSYS, targeting performance validation of mechanical parts under real-world conditions. These projects closely simulated R&D environments, focusing on failure prediction and design refinement.

PROJECT

- Autonomous golf trolley, Design Support to varios Clients, Pototype devlopement.
- Innovative Fog-Generating Fan
- Canva Clipping Innovation
- Automatic Open Drainage Cleaning Machine
- Solar-Powered Computing Device
- Auto Cleaning Machine
- Pendulum electric generat
- Multicolor 3D Print
- flow sesor
- Auto Fold Chaire
- AI-Based Autonomous Plant Monitoring and Care System
- AI-Driven Personalized Skincare Formulation and Dispensing Apparatus
- Sustainable Underwater Robotics: Autonomous Marine Surveillance Powered by Hydrodynamic Energy Generation