

## **SACHIN NAGAR**

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## **ABOUT ME**

I'm an **Experienced Mechanical Design Engineer** with over [2 years] of practical experience in **product design and CAD modeling**. I work with **SolidWorks, AutoCAD, Creo, and Siemens NX** to create accurate and efficient designs. I focus on **improving quality and making designs easier to manufacture**.

## **EDUCATION**

- **BACHELOR OF ENGINEERING** (2022-2025)  
Rajiv Gandhi Proudyogiki Vishwavidyalaya, University Bhopal  
Mechanical Engineer ( CGPA- 7.79 )
- **12 TH (MP BOARD)** (2020-2021)  
Model School Ichhawar ( Percentage 76.2% )
- **10 TH (MP BOARD)** (2018-2019)  
Model School Ichhawar (Percentage 77% )

## **CORE COMPETENCIES**

- 3D Modeling & Assembly Design
- Sheet Metal & Weldment Design
- Drafting
- Product Design & Development
- Design for Manufacturing
- Simulation & FEA(Basic ANSYS/SolidWorks Simulation)
- BOM Creation & Drawing Release
- Tolerance Analysis & Material Selection
- Collaboration with Production & Quality Teams

## **TECHNICAL SKILLS**

- AutoCad 2D&3D
- SolidWork
- Creo Parametric
- NX Cad
- Solid Edge
- AutoCad Fusion 360
- ANSYS (Structural Analysis)
- Hyper Mesh (Meshing)
- 3D Printing
- MS Office

## **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 IVEYS, 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 various Clients, Prototype development.
- Innovative Fog-Generating Fan
- Canva Clipping Innovation
- Solar-Powered Computing Device
- Pendulum electric generator
- Multicolor 3D Print
- flow sensor
- Auto Fold Chair
- AI-Driven Personalized Skincare Formulation and Dispensing Apparatus

**PERSONAL DETAILS**

Date of Birth: [09/09/2004]

Languages Known: [Hindi, English]

**DECLARATION**

I hereby declare that the information given above is true to the best of my knowledge and belief.

Place:-Bhopal  
(Sachin nagar)