Mr. DARSHAN SAHEBRAO GAIDHANI

B.E. Mechanical Engineering Sangamner 26/10/2005
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ABOUT ME

Mechanical Engineering student with strong skills in CAD, product development, and manufacturing. Proficient ,CAD/CAE and Microsoft Office. Passionate about developing innovative, practical, and manufacture solutions & with a clear focus on plant safety, reliability, and industrial operations.

EDUCATION

Amrutvahini College of Engineering, Sangamner — ***September 2023 – July 2027***

Bachelor of Mechanical Engineering (Pursuing) — ***CGPA: - 6.6/10***

Bytco College Nashik Road, Nashik — *July 2021 – Feb 2023*

Higher Secondary Certificate (HSC) — ***Percentage: - 56.50 %***

Santa Aaisaheb Maharaj English School, Palse Nashik — *April 2020 – March 2021*

Secondary School Certificate (SSC) — ***Percentage: - 70.00 %***

TECHNICAL SKILLS

CAD: - SolidWorks, Creo, Basic Siemens NX, Basic AutoCAD,
CAE: ANSYS
Design: GD&T, DFM, DFMEA, 3D Modelling, Drafting, Assembly Design, Engineering Drawing Interpretation
Additive Manufacturing: - 3D Printing, Ultimaker Cura, Bambu Lab
Programming: Basic Python
Productivity: MS Office
Documentation: QAP Documentation, BOM (Bill of Materials), ERP Documentation

WORK EXPERIENCE

Company Name – Indo Pumps Nashik — ***June 2025 - July 2025***

Intern - Design & Optimization, Production & Quality Control

- During my internship at Indo Pump, Nashik, as a **Junior Design Engineer Trainee**, I gained practical exposure to Pump manufacturing, production processes, and quality control activity
- I worked with AutoCAD and SolidWorks, developed an understanding of GD&T, engineering drawing interpretation, Bill of Materials (BOM), Quality assurance Plan (QAP) report filing, and ERP based documentation. Developed an understanding of mechanical components, and manufacturing processes.
- Gain exposure to design for Manufacturability (DFM) and industrial safety practices.

PROJECTS

Title : - Design and Fabrication of a Self-Manufactured Electric Vehicle — ***July 2025 – Aug 2026***

Description: - To design and fabricate a self-manufactured electric vehicle with an optimized chassis, ensuring structural strength, safety, and performance through SolidWorks design and ANSYS analysis.

- Worked as a **Design Team Member** in the design and development of an electric bike, with a focus on manufacturability, structural performance, and Design for Manufacturing (DFM)
- Led the complete chassis and vehicle assembly detailing in SolidWorks, considering strength, weldability, ergonomics, and fabrication feasibility
- Design Failure Mode and Effects Analysis (DFMEA) to identify potential failure modes, mitigate risk factors, and improve product reliability and safety.

a) **SIEP E-BIKE CHALLENGE 2026, at Galgotias University DELHI**

Awards:

- **All India Rank 4**
- **Best Acceleration Award**
- **Future Award**

- **1st Comprehensive Technical Inspection**

b) **Motorsport's Indian E-Bike Championship (IEBC – Bhopal)**

Awards:

- **All India Rank 4**
- **Best Business Plan Presentation**
- **Best Virtual Concept Presentation**
- **1st Runner-Up in Acceleration Test**
- **1st Runner-Up in Cost Presentation**

CERTIFICATIONS

- 3DSwymer Associate Certification - By Dassault Systemes March 2026
- Intro to Siemens NX: Engineering Essentials and Part Design - By Siemens | Coursera | July 2026
- NPTEL Certification - Stress Management - By IIT Kharagpur | 2026
- Introduction to Internet of Things (IoT) - By IIT Bombay | Coursera | Aug 2026

CO-CURRICULAR & EXTRA-CURRICULAR ACTIVITIES

- **Workshop Attended**: Advanced Aircraft Design, 3 Day Advanced Drone Technology,3-Day Artificial Intelligence Workshop which was conducted by Bharat Space Education Research Center.
- **Employability Skills Training Communication Skills program**: conducted by Aspiring Careers LLP, Pune 2024 in association with Sarathi Social Foundation, Pune at Amrutvahini College of Engineering, Sangamner.
- **Entrepreneurship Awareness Program** - MSME Technology Centre, Indo German Tool Room, Aurangabad (2025).
- **Boiler India 2026** - Visited Boiler India 2026 to explore industrial boiler technologies, thermal engineering solutions, and manufacturing advancements.

AWARDS AND ACHIEVEMENTS

- **Shot Put Winner -** General Championship, Amrutvahini College of Engineering (College-Level Sports).
- **Avishkar Research Convention 2026 –** Zonal Level Participant

VOLUNTEERING

- National Service Scheme (**NSS**) Volunteer.
- SPPU Youth Festival "Jallosh-2025" Volunteered in organizing the SPPU-level Youth Festival at Amrutvahini College of Engineering, Sangamner.

SOFT SKILLS

Problem-Solving, Teamwork, Quick Learning, Adaptability, Time Management, Attention to Detail, Positive Attitude.

HOBBIES & INTEREST

Playing Sports Game

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