

WAGHMODE VAIBHAV VISHNUPANT

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Career Objective

Motivated and detail-oriented **Mechanical Engineering undergraduate (Batch 2026)**. Passionate about applying strong fundamentals in **design, manufacturing, and energy systems** to support industrial innovation, process optimization, and sustainability initiatives.

Education

N.K.Orchid College of Engineering and Technology, Solapur

Bachelor of Mechanical Engineering —CGPA:8.10/10 (Pursuing)

Netaji Jr. Science College, Mohol

HSC—Marks:75.50% July2020 – Jun2022

Saraswati Vidyalay, Takali Sikandar

SSC (March 2020) – 89.60%

Projects

- **Development of Solar Based Hydrogen Generation System.**

Designed and analyzed a solar-based hydrogen generation system using photovoltaic energy. Focused on integrating electrolysis processes for clean and sustainable hydrogen production. Evaluated system efficiency and performance under varying solar conditions. Aimed at promoting renewable energy solutions for green fuel alternatives.

- **Development of Next Gen Eco-Composites for Aerospace Applications (Ongoing)**

Currently engaged in the design, fabrication, and experimental testing of biodegradable sandwich composite structures for aerospace applications. Made from lightweight and eco-friendly materials. Used in aircraft parts to reduce weight and save fuel. Strong, durable, and helps lower environmental impact.

Technical Skills

- **CAD & Design Software:** AutoCAD, Fusion360, SolidWorks, Catia.
- **Mechanical Design:** Parametric Modeling, Design for Manufacturing, Tolerance Analysis, Assembly Design.
- **Materials & Manufacturing:** Material selection and Specimen fabrication.
- **Documentation:** Engineering drawings, CAD documentation, technical reporting.

Internship / Training

- **3D CAD Intern | KarthiKesh Robotics Pvt. Ltd. (Tamil Nadu)** **(June 2025–Aug 2025)**
Completed internship in mechanical design using SolidWorks, Catia etc. focusing on 3D modeling, assemblies, and technical drawings. Designed functional models integrated with various sensors, applying parametric design and manufacturability principles, and producing high-quality renders for presentation and prototyping.
- **AutoCAD Intern | Avishkar Vocational Training Center** **(Aug 2024 - Oct 2024)**
Completed a 3-month internship program focused on 2D drafting and 3D modeling using AutoCAD. Gained proficiency in creating precise engineering drawings, interpreting technical requirements, and preparing layouts for mechanical components.
- **Solar Ready Engineer course by Dassault System** **(July 2024 - Aug 2024)**
Gained knowledge of solar energy fundamentals, types of radiation, and various solar-based projects. Learned about the design and manufacturing of solar-operated devices, with practical insights into renewable energy applications.

Certifications

- CAD Intern – KarthiKesh Robotics Pvt. Ltd. Tamil Nadu (2025)
- Tata Ready Engineer Certification (Advanced Automobile Design) – Tata Industries Ltd. (2025)
- SolidWorks Certification – Cadknez, Solapur (2025)
- Government AutoCAD Certified – MSBSVET (2025)
- Tata Ready Engineer Certification (Fundamentals of Automobile Design) – Tata Industries Ltd. (2024)
- AutoCAD Certification – Cadknez, Solapur (2024)