

# SHREYASH LAHARE

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## SKILLS

**Technical:** CAD (Autocad/Solidworks), CAE (Matlab/Ansys), MS-Office, AI Tools

**Soft Skills:** Team-Collaboration, Adaptability, Leadership, Creativity, Conflict resolution.

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## EDUCATION

**B.Tech in Mechanical Engineering - 8.16 CGPA** **2021 - 2025**

Vishwakarma Institute of Technology, Pune

**12th HSC Board - 62.92%** **2018 - 2020**

Global Public School, Nashik

**10th SSC Board - 86.20%** **2018**

Maratha Highschool, Nashik

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## PROJECTS

### Analysis of Different Shaped Coils

- Designed and analyzed copper coil Geometries (spring, rectangular, serpentine) using ANSYS, achieving temperature drops of 8°C, 7°C, and 5°C for evaporative cooling.

### Simulation of Gasoline Ethanol Fuel Blending in Ford 2264E engine.

- Conducted experimental analysis on the impact of ethanol-gasoline blends (E5 to E30) on a Petrol (Ford 2264E) engine, evaluating performance metrics and identifying optimal fuel compositions for enhanced efficiency Using Diesel RK

### Banana Fiber Extraction Machine

- Designed and manufactured a Raspador machine, incorporating key components such as a roller drum, a 2 HP motor, shaft with bearings, pulleys, belt, and a steel frame to efficiently extract fiber from banana pseudostems and create sustainable products.

### 3D Printed Plant Pot

- Designed and 3D-printed an innovative self-watering plant pot that utilizes capillary action to supply water to the plant from a dedicated reservoir below.

### Dual Axis Solar Tracking System

- Developed a dual-axis solar tracking system using Arduino and an PID controller with photoresistor inputs, optimizing solar panel orientation for maximum sunlight capture and enhancing energy efficiency compared to static configurations.

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## PATENTS AND PUBLICATIONS

- AGROMART (Website for Farmers and Customers), in year 2022.

### Research Papers published in ICAPSM Conference 2023 - SCOPUS INDEX

- "Design and Development of Banana fiber machine"
- "A study of Banana Fiber based materials and their possible applications"

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## ACHIEVEMENTS

- Vishwa Tech Spectra Hackathon - Secured 1st rank
- IEEE Ideathon - Secured 3rd rank
- Gujrat Pollution Control Board Hackathon - Secured 3rd rank