



# SIDDHESH CHAUDHARI

Mechanical Engineer

## Summary

I am Siddhesh Vijay Chaudhari, a B.Tech Mechanical Engineering student with a strong interest in design engineering and sustainable energy. I have gained industry experience at Tata Autocomp Systems Ltd, Pune, where I worked on project coordination, supported production planning, tracked project progress, and collaborated with cross-functional teams. I also developed skills in data handling and reporting using MS Excel. Additionally, I have basic knowledge of German (A1 level), which helps me work in diverse and global environments.

## Education

Bachelor of Technology (Mechanical Engineering) R. C. Patel Institute of Technology, Shirpur	08/2022 - 05/2026
Higher Secondary Certificate (HSC) Pratap College, Amalner	06/2020 - 05/2022
Secondary School Certificate (SSC) Shri N.T. Mundada Global View School, Amalner	06/2019 - 05/2020

## Experience

Tata Autocomp Systems Ltd Quality Assurance & Audit Operations	Pune, India 01/2026 - Present
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Automotive company specializing in cockpit systems, component manufacturing, and systems engineering for vehicle manufacturers.

- Conducted in-process quality inspections to ensure compliance with standards.
- Performed Vehicle Quality Audits (VQA), including FPA and CPA.
- Maintained quality documentation and audit reports.
- Contributed to continuous improvement of processes.

## Skills

**Design Tools:** CATIA V5, AutoCAD, ANSYS

**Process Excellence:** In-process Inspection, VQA, FPA, CPA, Defect Analysis, Root Cause Analysis, Quality Documentation, Process Improvement

**Manufacturing Knowledge:** Basic Production Processes, Workshop Practices

**Soft Skills:** Problem Solving, Analytical Thinking, Teamwork

## Projects

### Experimental and CFD Analysis of a Solar Evacuated Tube Collector Using Phase Change Materials

This is a major project on enhancing the performance of a Solar Evacuated Tube Collector (ETC) using Phase Change Materials (PCM) to improve heat storage and transfer. Both experimental setup and CFD simulations were carried out to analyze temperature distribution, flow behavior, and overall heat transfer efficiency for sustainable solar thermal systems.

### Production of Biodiesel using Waste Cooking Oil

This is a minor project on producing biodiesel from waste cooking oil using the transesterification process, optimizing conditions to improve yield and promote eco-friendly fuel alternatives.

## Languages

German A1