

# SIDDHARTH SWARUP PATANKAR

Manufacturing & Quality Engineer | Mechanical Engineering Graduate

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CGPA: 8.01/10 | B.E. Mechanical Engineering

## PROFESSIONAL SUMMARY

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Mechanical Engineering graduate with hands-on manufacturing and quality experience in heavy-industry environments. Currently serving as a Quality Apprentice at Atlas Copco India Pvt. Ltd. (Gas and Process Division), with direct exposure to manufacturing workflows, component inspection, vendor management, and production documentation for high-value compressor packages. Familiar with lean manufacturing principles, 5S workplace organization, and shopfloor quality control practices. Prior experience in metal pressing and automotive servicing reinforces a strong shopfloor foundation. Seeking a Manufacturing Engineer or Graduate Engineer Trainee (GET) role to contribute to production processes, process improvement, and operational excellence.

## CORE COMPETENCIES

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Manufacturing Processes | Production Engineering | Process Improvement | Lean Manufacturing | 5S Workplace Organization | Kaizen | Quality Assurance and QC | Inward Inspection | Shop Floor Operations | GD&T Fundamentals | VDRL Documentation | TPIA Management | PLM Software | SAP (Basic Awareness) | Vendor Coordination | AutoCAD | MS Office Suite | Team Leadership

## PROFESSIONAL EXPERIENCE

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### Quality Apprentice - Manufacturing and Core Quality

Jun 2025 - Present

Atlas Copco India Pvt. Ltd., Gas and Process Division | Pune, Maharashtra

- Performed inward inspections of precision-machined components and sub-assemblies for high-value industrial compressor packages, verifying dimensional accuracy and compliance with engineering specifications and GD&T requirements.
- Gained direct shopfloor exposure to manufacturing processes for centrifugal and reciprocating compressor packages, including assembly sequences, component tolerances, and production quality gates.
- Applied 5S and lean manufacturing principles on the shopfloor to support organized, efficient, and defect-free production workflows.
- Managed VDRL (Vendor Document Review Log) and quality dossier preparation for the Reliance KPCL Compressor Package, coordinating multi-stakeholder documentation workflows.
- Coordinated with vendors and Third-Party Inspection Agencies (TPIA) to schedule inspections, resolve non-conformances, and ensure on-time project delivery.
- Operated PLM software for document control, revision management, and traceability across multi-stakeholder manufacturing projects.
- Delivered manufacturing quality support for major clients: Reliance Industries, Indian Oil Corporation, Bharat Petroleum, and ADNOC (Abu Dhabi).

### Manufacturing Intern

Dec 2023 - Jan 2024

Dolphin Industry - Metal Pressing and Manufacturing | Maharashtra

- Gained hands-on shopfloor exposure to metal pressing machine operations, tooling setups, and production workflows in a component manufacturing environment.
- Monitored quality control checkpoints along the production line, identifying defects and supporting process documentation in line with lean quality practices.
- Developed practical understanding of production scheduling, material flow, and real-time problem-solving in a high-volume manufacturing setting.

### Mechanical Fitter

Nov 2022 - Sep 2023

Two Wheeler Garage - Automotive Servicing | Chiplun, Maharashtra

- Performed engine tuning, brake system adjustments, tire replacements, and electrical diagnostics on two-wheelers, building strong hands-on mechanical skills.

- Maintained high attention to detail to ensure vehicle safety, reliability, and customer satisfaction in a high-volume service environment.

## KEY PROJECTS

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### Reliance KPCL Compressor Package

May 2025 - Feb 2026

Atlas Copco India | Team Size: 3 | Mentor: Jigar Kalwadia

- Supported end-to-end quality and manufacturing documentation for a critical compressor package project for Reliance Industries.
- Performed component inspections at various manufacturing stages and coordinated with vendors and the Reliance client team for inspection sign-offs and non-conformance resolution.

### Hydrogen Production via Water Electrolysis

Jul 2024 - May 2025

B.E. Final Year Project | Team Size: 4 | Guide: Dr. Narayan Sapkal

- Developed an efficient process model for green hydrogen generation via water electrolysis, covering electrolyzer design, system integration, and performance analysis.
- Led team as project manager: managed financial planning, task delegation, and delivery milestones for a 4-member cross-functional team.

### 20 TEST - Total Electric Sport Tera Bike

Nov 2022 - May 2023

Team Project | Team Size: 20 | Mentor: Prof. Manoj Salunkhe

- Won First Award at college level for designing and building a functional electric performance motorcycle, contributing to mechanical assembly and systems integration.
- Managed budget planning, social activities, and cross-functional coordination for a 20-member project team.

### Obstacle Avoiding Robotic Car

Electronics and Robotics | Team Size: 4 | Mentor: Prof. Pankaj Pardeshi

- Designed and built an autonomous vehicle with real-time obstacle detection and avoidance using ultrasonic sensors and microcontroller programming.

## EDUCATION

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### B.E. - Mechanical Engineering

2021 - 2025

Dr. D. Y. Patil Institute of Technology, Pune | CGPA: 8.01/10

### Diploma - Automobile Engineering

2022

Sahyadri Polytechnic Sawarde, Chiplun | MSBTE | 82.11%

### 10th Standard

2019

Suresh Damodar Gadre English Medium School, Chiplun | MSBSE | 83.60%

## AWARDS AND ACHIEVEMENTS

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- First Award - 20 TEST Electric Bike Project (College-level competition)
- Gold Medal - Ball Badminton

## PERSONAL DETAILS

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**Date of Birth:** 18 November 2003

**Gender:** Male

**Marital Status:** Single

**Languages:** English, Marathi, Hindi

**Interests:** Drumming, Stock Market Analysis, Fitness and Gym