

## **MEET CHANDRAKANT PATEL**

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- ☐ Vadodara, Gujarat

### **R&D MECHANICAL ENGINEER | VALVE DESIGN & TESTING | PPAP | ROOT CAUSE ANALYSIS**

R&D Mechanical Engineer with hands-on experience in design validation, reverse engineering, and product testing of industrial valves and components. Skilled in PPAP documentation, defect analysis, and performance testing, with a strong focus on improving product reliability and manufacturing efficiency.

### **TECHNICAL SKILLS**

- Core Skills: PPAP, PFMEA, Control Plans, Root Cause Analysis, Reverse Engineering
- Testing & Validation: Force vs. Stroke Testing, Product Validation
- Manufacturing & Quality: Vendor Development, Costing, BOM, ERP Systems
- Design Tools: AutoCAD (Basic)
- Soft Skills: Analytical Thinking, Problem Solving, Team Collaboration

### **PROFESSIONAL EXPERIENCE**

#### **Epoxy House (ECS Industries Pvt Ltd)**

Junior Engineer – R&D and Analysis | Apr 2025 – Present

- Reverse engineered directional control valve components to support new product development
- Identified and resolved multiple production defects using root cause analysis, improving product reliability
- Conducted Force vs. Stroke testing to validate valve performance against design specifications
- Prepared and maintained PPAP, PFMEA, and Control Plan documentation for quality compliance
- Coordinated with vendors for tooling development and manufacturing support

#### **Rotex Automation Limited**

Graduate Engineer Trainee | Nov 2024 – Mar 2025

- Completed rotational training across production, quality, and operations departments
- Gained hands-on understanding of industrial workflows, manufacturing cycles, and quality processes
- Assisted in inspection and quality control activities to ensure product standards

#### **Meet Engineers**

Mechanical Intern | Jan 2024 – Apr 2024

- Assisted in assembly and welding of transformer tanks, ensuring quality and safety compliance

- Supported research on materials and design standards for transformer tank development

### **KEY PROJECT**

Pond Cleaner Boat (Final Year Project)

Project Developer

- Designed and developed a solar-powered automated pond cleaning system
- Integrated ATmega328P microcontroller for automated waste collection
- Built a lightweight, eco-friendly solution for water body maintenance

### **EDUCATION**

Bachelor of Engineering – Mechanical Engineering (2020 – 2024)

Babaria Institute of Technology, Vadodara

### **ADDITIONAL INFORMATION**

- Languages: English, Gujarati, Hindi
- Availability: Open to opportunities in R&D / Design / Product Engineering/ Production & Manufacturing/ Sales & Marketing/ Supply Chain & logistics