

Rutuja Shekade

Graduate Engineer Trainee – Industrial Automation / PLC Engineer

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PROFESSIONAL SUMMARY

Final-year Instrumentation & Control Engineering student with strong understanding of industrial instrumentation, process control, and steam systems. Hands-on experience in PLC programming, sensors, and industrial automation. Eager to apply knowledge in process industries with focus on efficiency, safety, and energy management.

WORK EXPERIENCE

Intern 01/2025 – 02/2025

V Ramp Automation Pvt. Ltd.

- Performed PLC programming and debugging using ladder logic
- Executed control panel wiring, loop checking, and signal validation (4–20 mA systems)
- Conducted troubleshooting of relays, contactors, and industrial components
- Supported real-time automation systems and data-driven control processes

Operations Industrial Engineer Intern (Virtual)

Siemens Mobility - Forage

- Analyzed industrial workflows and identified process bottlenecks
- Optimized production layout to improve efficiency and throughput
- Applied data-driven decision-making techniques to improve process efficiency

EDUCATION

B.E. (Instrumentation & Control)

2022 – 2026

D. Y. Patil College of Engineering, Akurdi, Pune

- CGPA: **7.9**
- Final Year CGPA – **9.3**

Higher Secondary (12th)

Jai Parvatimata Jr. College, Ahilyanagar Pune, Maharashtra

- 76%**

Secondary (10th)

New English School, Chichondi Patil

- 83%**

TECHNICAL SKILLS

PLC Programming: Siemens (TIA Portal), Allen-Bradley (RSLogix), Delta PLC

Instrumentation: 4-20 mA Signal Systems | Sensors & Transmitters | RTD, Thermocouple | Process Control Basics | P&ID Diagram Understanding ★ | Industrial Instrumentation (Pressure, Flow, Level) | Control Valves Basics | Calibration Basics

Tools & Software: LabVIEW, MATLAB, AutoCAD Electrical | MS Excel, MS Word

SCADA/HMI: WinCC, HMI Design, and Alarm Handling

Industrial Automation: DCS, Control Systems, Process Automation

Concepts: Industrial IoT, Data Acquisition Systems

Programming: Python (Basic), SQL (Basic)

PROJECTS

Smart Fetal & Maternal Health Monitoring System

06/2025

- Designed a real-time monitoring system using Arduino Due for multi-parameter physiological measurement.
- Implemented signal acquisition and processing for safety monitoring.
- Developed data acquisition and signal processing system for real-time monitoring

Solar Grass Cutter

07/2023

- Designed and implemented a solar-powered grass cutting system using renewable energy
- Reduced fuel dependency and operational costs for small-scale applications

Gas Leakage Detector (MQ-5 Sensor)

03/2024

- Developed a real-time gas detection system with an alert mechanism
- Applied sensor interfacing and safety monitoring principles

ACTIVITIES & ACHIEVEMENTS

- Led a team of 10 members in organizing 5 technical events during college tech fest.
- Supported training of 50+ students in PLC programming basics.
- Co-authored a research paper presented at ICCSE 2025

- Participated in PLC Programming Competition at AISSMS College of Engineering, Pune.