RUTUJA SHEKADE

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SUMMARY

Instrumentation & Control Engineering student with hands-on experience in PLC programming, industrial automation, and operations optimization through internships and simulations.

WORK EXPERIENCE

Intern – V Ramp Automation Pvt. Ltd. **Jan 2025 – Feb 2025**

- Developed and tested 5+ PLC programs on Schneider PLCs
- Executed 3 industrial control panel wiring setups, achieving 100% error-free commissioning
- Reduced troubleshooting time by 20% using systematic wiring and testing methods
- Gained exposure to industrial automation practices and standards

Operations Industrial Engineer Intern (Virtual)

Siemens Mobility – Forage

- Performed operations optimization and layout redesign for a high-speed rail manufacturing
- setup
- Identified workflow inefficiencies and a critical bottleneck in the wheel assembly section
- Proposed a data-driven layout improvement to enhance material flow and operational efficiency
- Prepared and presented a structured layout optimization proposal using PowerPoint

EDUCATION

B.E. (Instrumentation & Control) CGPA:7.5 **2022 – 2026**
D. Y. Patil College of Engineering, Akurdi, Pune

Higher Secondary (12th) — 76%
Jai Parvatimata Jr. College, Ahilyanagar

Secondary (10th) — 83%
New English School, Chichondi Patil, Maharashtra

SOFT SKILLS & LANGUAGES

Soft Skills: Communication, Teamwork, Problem Solving, Adaptability, Time Management
Languages: English, Hindi, Marathi, Basic German

TECHNICAL SKILLS

- **PLC & Automation:** Siemens, Allen-Bradley, Delta PLCs (Ladder Logic, Timers, Counters)
- **Control Systems**: PID Controllers, DCS BasicsSCADA / HMI: WinCC basics, alarms, screen design
- **Instrumentation**: RTD, Thermocouple, MQ-5 Gas Sensor, Transmitters
- **Tools:** AutoCAD Electrical, LabVIEW, Power BI
- **Other**: IoT basics, Project Management C AND C++BASIC

PROJECTS

- **Smart Fetal & Maternal Health Monitoring System –**Designed a real-time health monitoring system measuring 5+ physiological parameters for maternal and fetal safety **June2025**
- **Gas Leakage Detector (MQ-5 Sensor) –** Developed an MQ-5 based gas leakage detection system with instant alert response for hazardous gas levels **Mar2024**
- **Solar Grass Cutter –** Designed and implemented a solar-powered grass cutting system utilizing renewable energy, enabling zero fuel consumption and reducing operating cost for small-scale applications **July2023**

ACTIVITIES & ACHIEVEMENTS

- Led a team of 10 members in organizing 5 technical events during college Tech Fest
- Supported PLC programming workshops for 50+ students
- Co-authored 1 research paper presented at an international conference (ICCSE 2025)