

GAURAV JIRE

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Professional Summary

Automation & Robotics engineering student with hands-on experience in PLC programming (Siemens TIA Portal, Allen-Bradley RSLogix), HMI design, and embedded IoT systems. Built and deployed multiple end-to-end automation and monitoring systems using Python, ESP32, and industrial control hardware. Completed an internship applying Siemens PLC fundamentals in a live industrial setting. Seeking an entry-level Automation / Controls Engineering role.

Technical Skills

PLC & Automation: Siemens TIA Portal (S7-1200), Allen-Bradley RSLogix, HMI Design, Industrial Automation, PLC Programming

Programming: Python, Embedded C

Hardware & IoT: Arduino, ESP32, Sensor Integration, GSM/Telegram Alerting, ThingSpeak, 3D Printing

Work Experience

Automation Intern — Autonetics Automation Pvt Ltd
Nashik, Maharashtra

Jan 2026 – Feb 2026

- Gained hands-on experience programming and troubleshooting Siemens PLCs used in live industrial automation systems.
- Assisted in PLC programming, control panel wiring, and functional testing of automation systems, supporting on-time delivery of assigned tasks.

Projects

Smart Onion Storage Monitoring & Rotting Detection System
Python, Arduino, ESP32

Jan 2025

- Engineered an IoT monitoring system tracking temperature, humidity, and gas levels in onion storage to detect early spoilage.
- Automated exhaust fan activation on spoilage detection and integrated ThingSpeak, GSM, and Telegram bot alerts for real-time remote monitoring.

IoT-Based Livestock Health Monitoring System (PashuBand)
Python, ESP32, GPS/Sensor Integration

Aug 2025

- Designed a low-cost wearable device using ESP32, temperature, motion, and GPS sensors for real-time animal health and location tracking.
- Architected a web/mobile dashboard supporting multi-animal tracking and automated health alerts.
- Selected for the IIT Bombay e-Yantra Innovation Challenge (eYIC) and advanced to Ideation Sprint 3 out of a national applicant pool.

Bluetooth-Controlled Self-Driving Robot
Python, Embedded Systems, RPA

Dec 2024

- Built a four-wheel robot supporting both Bluetooth manual control and autonomous self-driving mode.
- Automated a Knox password reset workflow using Brity RPA, improving process security and reducing manual effort.

Education

B.E., Automation and Robotics — Amrutvahini College of Engineering
Sangamner, Maharashtra | CGPA: 8.2 / 10

2023 – 2027

Certifications

- Python — Udemy
- S7-1200 PLC and HMI — Udemy
- Siemens PLC Programming
- Embedded C and IoT — Workshop
- 3D Printing — D Shikshan
- Technical English for Engineers — NPTEL

Leadership & Extracurricular Activities

Participant — E-Yantra Innovation Challenge (eYIC), IIT Bombay

Aug 2025 – Jan 2026

- Selected and advanced to Ideation Sprint 3 in a national-level innovation competition, developing an automation-based project concept using embedded systems and sensors.

Volunteer — National Service Scheme (NSS), Sangamner

Aug 2025 – Aug 2027

- Participated in community service activities including cleanliness drives and social awareness campaigns.
- Developed teamwork, leadership, and problem-solving skills through hands-on community projects.