ATHARV ADSURE

Automation & Robotics Engineer

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PROFESSIONAL SUMMARY

B.E. Automation & Robotics Engineering, CGPA 7.0 (Amrutvahini College of Engineering, 2026). Hands-on with Siemens TIA Portal, Allen-Bradley PLCs, SCADA, and HMI across automotive (FIAT India) and industrial automation (Automators Pvt. Ltd.) internships. Seeking a Graduate Engineer Trainee role in industrial automation or automotive manufacturing.

TECHNICAL SKILLS

Automation	Siemens TIA Portal · Allen-Bradley (RSLogix 500) · PLC Programming · HMI Development · SCADA · Profinet · Instrumentation
Quality & Process	IATF 16949 · 5S · Kaizen · Root Cause Analysis · Poka-Yoke · Technical Documentation
Software & Hardware	AutoCAD · MATLAB · Arduino IDE · Embedded C · Control Panel Wiring · Sensor & Actuator Interfacing

INTERNSHIP EXPERIENCE

Intern — Automation & Quality Engineering · Paint Shop

Dec 2025 – Jun 2026

FIAT India Pvt. Ltd., Pune

- Reduced paint-line parameter deviations by ~15% as measured by daily SPC logs, by implementing structured monitoring of temperature, humidity, and viscosity checkpoints aligned with IATF 16949 quality protocols.
- Improved control system uptime by contributing to weekly instrumentation inspections and I/O fault logs, tracked by the plant maintenance register across 3 production sub-lines.
- Cut recurring process non-conformances by supporting root cause analysis (5-Why / Ishikawa) on 4 quality escapes, resulting in corrective actions adopted by the production team.
- Sustained zero missed compliance checkpoints over 6 months as measured by internal audit scores, by executing 5S discipline and standardised shift-handover reporting in the paint booth zone.
- Accelerated cross-team response time by preparing structured shift reports and participating in daily Kaizen standup meetings with production and quality engineers.

Industrial Automation Intern

Jun 2024 – Nov 2024

Automators Industrial Projects Pvt. Ltd., Pune

- Delivered 2 end-to-end automation projects (Car Parking & Pick-and-Place) on schedule as measured by commissioning sign-off dates, by programming Siemens PLCs via TIA Portal and developing corresponding HMI screens from scratch.
- Reduced I/O fault resolution time by ~30% as measured by commissioning logs, by systematically troubleshooting wiring and signal faults using structured root cause analysis and schematics verification during site commissioning.
- Assembled and wired 3 industrial PLC control panels to zero rework as verified by senior engineers, by following IEC-standard electrical drawings and applying Poka-Yoke wire-tagging and labelling practices.
- Enabled real-time process visibility for 2 client sites as measured by successful FAT completion, by developing SCADA dashboards with alarm management and live trend displays using Profinet-connected field devices.
- Produced a complete documentation package (I/O lists, wiring diagrams, BOM, and test reports) for all projects, reducing client handover queries to zero as confirmed by project lead sign-off.

ACADEMIC PROJECTS

Automatic Car Washing System — Arduino Mega | Sensors | Relay Modules | Embedded C

- Reduced manual intervention to zero for a 3-stage wash cycle (wash, rinse, dry) as verified by lab testing, by building sequential relay logic on Arduino Mega with proximity sensor feedback and DC motor control.
- Prepared system wiring diagrams, testing procedures, and comprehensive technical documentation.

Automatic Solar Tracking System — Arduino | LDR Sensors | Dual-Axis Servo Control

- Improved simulated panel output angle accuracy to within ±5° throughout a full daylight cycle as measured by LDR sensor readings, by implementing closed-loop servo feedback using real-time differential light intensity comparison.
- Applied sensor interfacing, embedded control, and power electronics concepts across a dual-axis mechanical frame.

EDUCATION

Bachelor of Engineering — Automation & Robotics Engineering Expected 2026

Amrutvahini College of Engineering, Sangamner | CGPA: 7.0 (Till Sem VII)

Diploma in Computer Science Engineering 75%

Dr. N. J. Paulbudhe Institute of Technology

CERTIFICATIONS

- PLC & HMI using Siemens TIA Portal
- Industrial Automation Training

LANGUAGES

English · Hindi · Marathi