



NATION INNOVATION

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SUMMER INTAKE OPEN: Get 15% OFF on early enrolment · Limited seats per cohort

PLC SCADA ENGINEERING INTERNSHIP

Industrial Automation Mastery — Programmable Logic Controllers, Field Instrumentation and SCADA Systems, taught with real industry hardware and live demonstrations.

START DATE	DURATION	MODE	FEE
15 June 2026 Apply Now	4 Weeks Live Online · Instructor-led	Online — Live Real PLC + SCADA Software	Rs. 1,999/- (MRP Rs. 3999/-)

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BOOK FREE CAREER CALL

In collaboration with NSDC & DPIIT | MSME Registered | Recognised under Startup India & Skill India

Meet Your Instructor

Industry-grade automation trainer who has worked on real plant-floor deployments.



Dr. Gaurav Verma

Industrial Automation Expert · Certified PLC Programmer

Has trained engineering students, fresh graduates and working professionals on Ladder Logic, Timers/Counters, HMI design, Data Logging and Industrial Networking — with a relentless focus on troubleshooting, plant-floor debugging and real-world deployment patterns.

About the Program

A 4-week deep-dive into the PLC + SCADA stack used across real industrial plants.



This 4-week online intensive Summer Internship Program is designed to give you hands-on experience in Programmable Logic Controllers (PLC), Field-Level Instrumentation and SCADA Systems used for real Industrial Automation. The course is delivered through instructor-led live sessions of lectures and hands-on demonstrations on real PLC hardware and SCADA software — the same tools used on plant floors today.

You will go end-to-end on the industrial automation stack: PLC hardware components, ladder logic programming, timers and counters, advanced logic functions, troubleshooting techniques, SCADA architecture, HMI development, data logging, alarms, trends and remote networking. Every concept is reinforced with applied exercises and finished off with industrial case studies and a capstone project.

By the end of the internship, you will be able to design, program and commission a PLC-based control system, build a working SCADA HMI for monitoring and supervisory control, and confidently apply for industrial automation, control systems and instrumentation roles — backed by a recognised certificate of completion.

Who is this for?

Built for engineering students, fresh graduates and working professionals stepping into industrial automation.

 WHO SHOULD APPLY	 PROGRAM PREREQUISITES
<ul style="list-style-type: none">• Diploma and Bachelor's degree students in Electrical or Electronics Engineering• Students who want to build a career in industrial automation• Recent graduates looking to start their engineering career• Working professionals who want to upgrade to control systems / automation roles	<ul style="list-style-type: none">• Basic knowledge of electrical systems• Understanding of circuits and simple electronics• Comfort using a computer and basic software• Strong interest in learning industrial automation

Learning Outcomes

By the end of this program, you will be able to:

- ✓ Understand industrial automation, PLC architecture and PLC hardware components used in real plants.
- ✓ Read, design and write Ladder Logic programs from scratch on industry-standard PLC software.

- ✓ Use Timers, Counters and advanced logic functions to build sequential control programs.
- ✓ Find and fix problems on a running PLC system using structured troubleshooting techniques.
- ✓ Understand SCADA architecture and where it sits in the plant automation hierarchy.
- ✓ Build Human Machine Interfaces (HMI) — screens, animations, alarms and operator controls.
- ✓ Implement Data Logging and Trends to capture and visualise process data over time.
- ✓ Configure Remote Access and Industrial Networking for distributed plant monitoring.
- ✓ Walk through real industrial case studies and ship a complete capstone automation project.
- ✓ Be interview-ready for industrial automation, instrumentation and control system engineer roles.

Course Curriculum

4 weekly modules · Live instructor-led sessions + hands-on labs on real PLC and SCADA software.

Module 1

Introduction to Industrial Automation and PLC

Topics Covered

- What is Industrial Automation? — process vs discrete automation, where PLCs fit, and how plant-floor control has evolved.
- PLC Hardware Components — CPU, power supply, digital and analog I/O modules, communication modules and rack architecture.
- Introduction to Ladder Logic — contacts, coils, rungs, and how to think about real-world control problems in ladder form.

Module 2

PLC Programming and Troubleshooting

Topics Covered

- Software for PLC Programming — installing, configuring and connecting to a PLC; project tree, hardware configuration and download/upload.
- Timers and Counters — TON / TOF / RTO timers and CTU / CTD counters used in real sequencing problems.
- More Advanced Logic Functions — math, compare, move, set/reset, edge detection and sequencer instructions.
- Finding and Fixing Problems — structured PLC troubleshooting, online monitoring, force tables and common field faults.

Module 3

SCADA Systems and Monitoring

Topics Covered

- What is SCADA? — architecture, where SCADA sits above the PLC layer, tags, drivers and runtime/engineering split.
- Creating Human Machine Interfaces (HMI) — screen design, animations, push-buttons, alarms and operator workflows.
- Data Logging and Trends — capturing process data, real-time and historical trends, and storing logs for analysis.
- Remote Access and Networking — industrial networks, remote SCADA access and secure communication basics.

Module 4

Real Projects and Career Preparation

Topics Covered

- Real Industrial Case Studies — walk-throughs of actual plant automation deployments and their PLC + SCADA architectures.
- Final Project Development — design, program and demonstrate a complete PLC + SCADA control system end-to-end.
- Career Preparation and Certifications — automation career paths, industry certifications and how to position yourself.
- Final Presentation and Certification — present your project, receive feedback, and earn your hard-copy certificate.

Hands-on Industry Projects

Graduate with a portfolio of working PLC + SCADA projects — built end-to-end on real hardware and software.

#	PROJECT	WHAT YOU WILL BUILD
#1	Motor Start/Stop with Safety Interlocks	<i>PLC ladder program with start, stop, emergency-stop, overload and seal-in logic — the foundational control pattern used across every industrial plant.</i>
#2	Traffic Light Control System	<i>Sequential control project using PLC timers and counters to implement multi-direction traffic light logic with pedestrian crossing.</i>
#3	Bottle Filling Conveyor Automation	<i>End-to-end conveyor + sensor + actuator project: detect bottle, pause conveyor, fill, resume — sequential control with real I/O.</i>
#4	Water Tank Level Control with HMI	<i>Analog input + level control logic on PLC, paired with a SCADA HMI</i>

#	PROJECT	WHAT YOU WILL BUILD
		<i>showing live tank level, pump status and alarms.</i>
#5	Industrial Furnace Temperature Monitoring	<i>Analog input acquisition + trend logging + alarm management on SCADA — the classic process monitoring pattern.</i>
#6	Multi-Station SCADA Dashboard (Capstone)	<i>Complete supervisory dashboard integrating multiple PLC stations, HMI screens, data logging and remote access into one shippable project.</i>

What's Included in the Program

Everything you get when you enrol in the PLC SCADA Summer Internship.

 Hands-on Training 4 weeks of hands-on classroom-style training, end-to-end.	 Real Hardware Access to real PLC hardware and SCADA software — not animated simulators.	 Industry Instructors Experienced instructors with real plant-floor industry experience.	 Small Cohort Size Small class size for better learning and one-on-one attention.
 Team Support Continuous support and guidance from our training team.	 Certificate Hard-copy certificate of completion, mailed to your address.	 Career Guidance Career counselling and job placement assistance after completion.	

Get Certified

Yes! On successfully completing the program you receive a hard-copy certificate of completion, mailed directly to your address.

✓ Hard-copy & Verified	✓ Easy to Share	✓ Career Edge
Mailed to your address · recognised by industry professionals	Add to your resume, LinkedIn and job applications	Stand out in industrial automation interviews and apprenticeships

 [**RESERVE YOUR SEAT**](#)

Live Training Highlights

Everything you get when you enrol in a Nation Innovation live training program.

 Certificate Certificate course in collaboration with NSDC, DPIIT	 Internship Opportunity to intern overseas	 24x7 Support Training with 24x7 mentor support
 1:1 Mentoring Personalised 1:1 mentoring & doubt sessions	 Flexible Schedule Designed to fit students and working professionals	 6-Digit Salary Assured 6-digit salary association with industry partners
 LMS & Recordings Free access to Learning Resource Portal and session recordings	 Live Projects Engage in 3+ live projects and live case studies	 100% Placement Support Career assistance by industry experts

Bonus Learning Perks

Career-ready add-ons included with your enrolment, at no extra cost.

★ GitHub Profile	★ LinkedIn Profile	★ Resume Writing	★ Soft Skills	★ Mock Interview
Build a recruiter-ready GitHub portfolio with real project commits.	Optimise your LinkedIn for visibility, keywords and recruiter reach.	Craft an ATS-friendly, role-targeted resume that gets shortlisted.	Communication, teamwork and workplace etiquette for interviews.	Live mock interviews with feedback to sharpen your performance.

Learning Roadmap

Your journey from learner to placed professional — broken down into three guided steps.

STEP 1	STEP 2	STEP 3
Building a Strong Foundation	Internship & Project Learning	Placement Support
Build strong fundamentals from scratch with industry experts.	Gain hands-on experience working on 3+ live projects.	Counselling, confidence building and resume support to land the right career opportunity.

Recognised & Trusted

Operating in collaboration with leading Government of India initiatives and industry bodies.

MSME Registered	Startup India	Skill India	DPIIT Approved	NSDC Partner
Yes	Yes	Yes	Yes	Yes

What Our Learners Say

Trusted Reviews: 24+ | Average rating: 5 / 5 ★

<p>★★★★★</p> <p>“Nice and well-organized course.”</p> <p>Ashwini Ranade Course: Data Science Placed at: National Institute of Hydrology (NIH)</p>	<p>★★★★★</p> <p>“I recently completed my Python Programming Internship at Nation Innovation, and it was a highly enriching experience that strengthened my Python skills, coding confidence and industry readiness through practical learning and supportive mentorship.”</p> <p>Manisha Kumari Course: Python Programming Internship Placed at: CISCO</p>
<p>★★★★★</p> <p>“Overall good.”</p> <p>Deepak Chaudhary Course: Internet of Things Placed at: BlockDeep Labs</p>	<p>★★★★★</p> <p>“Thanks for understanding each topic very easily. I got to learn many new things from this training. Your teaching style and dedication always inspires me.”</p> <p>Sikandar Kumar Course: Python Programming</p>

	Placed at: —
<p>★★★★★</p> <p><i>“After this training, I can easily know where to do what I need to get done, from schematic capture to footprints to out-jobs.”</i></p> <p>Rishabh Keshavanand Joshi Course: PCB Design Placed at: —</p>	<p>★★★★★</p> <p><i>“A good platform for creative and curious minds interested in the field of electronics. Platform offers an extremely well-curated list of courses and modules — couldn’t be more satisfied!”</i></p> <p>Kartik Yadav Course: Electronic Devices and Circuits Placed at: —</p>

[View all testimonials →](#)

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We're here 24x7 — for course queries, technical questions, payment help or career counselling.

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Nation Innovation is a leading platform in the electronics and software domain, offering a comprehensive source of knowledge encompassing software and hardware.

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