nexify
automation solutions

GP BOOK

DON'T JUST START YOUR CAREER. ENGINEER IT.

2025/2026

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ABOUT NEXIFY

SOLUTIONS TO EMPOWER YOUR SUCCESS

Nexify Automation Solutions is a leading system integrator and solution provider specializing in IT and OT technologies for industrial operations. With a strong focus on delivering innovative, reliable, and efficient automation solutions, we support our clients in accelerating their digital transformation journey.

Our team brings 20+ years of hands-on engineering and field experience across upstream, midstream, downstream, and offshore operations.
We design, upgrade, and secure advanced industrial systems used by major energy operators.

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WHY CHOOSE NEXIFY FOR YOUR GRADUATION PROJECT?

LEARN ACCORDING TO INTERNATIONAL ENGINEERING STANDARDS
Develop skills aligned with international standards and global engineering best practices.

WORK ON REAL INDUSTRIAL PROJECTS
Gain hands-on experience on actual DCS, PLC, SCADA, and safety system architectures.

GET MENTORED BY EXPERTS
Benefit from guidance by experts with 15–20+ years of field experience.

TRAIN ON REAL SYSTEMS AND REAL CONSTRAINTS
Practice using true industrial architectures & real operational scenarios.

BUILD FIELD READY SKILLS
Acquire technical capabilities that match industry expectations from day one.

INCREASE YOUR CHANCES OF GETTING HIRED
Access a high probability of full-time recruitment after your internship.

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WHAT WE DO

- **CONTROL SYSTEMS (DCS/PLC/RTU)**
EMERSON, SCHNEIDER, SIEMENS...

- **SAFETY SYSTEMS (SIS/ESD/PSD)**
HIMA, HONEYWELL

- **SCADA & TELEMETRY**
RTU, TELECOM, PHOTOVOLTAIC SYSTEM

- **INSTRUMENTATION & ELECTRICAL**
SMART DEVICES, CONTROL PANELS

- **OT CYBERSECURITY**
IEC 62443

- **DIGITAL SOLUTIONS**
ASSET MANAGEMENT, DATA INTEGRATION

TARGET PROFILE

We are actively seeking motivated final-year engineering students from the following specializations:

01 • INDUSTRIAL AUTOMATION & CONTROLS

02 • ELECTRICAL / ELECTROMECHANICAL ENGINEERING

03 • INSTRUMENTATION & INDUSTRIAL COMPUTING

04 • INDUSTRIAL IT / EMBEDDED SYSTEMS

Soft Skills: Curiosity, rigor, problem-solving, teamwork.

GP SUBJECTS

// SUBJECT 1 :

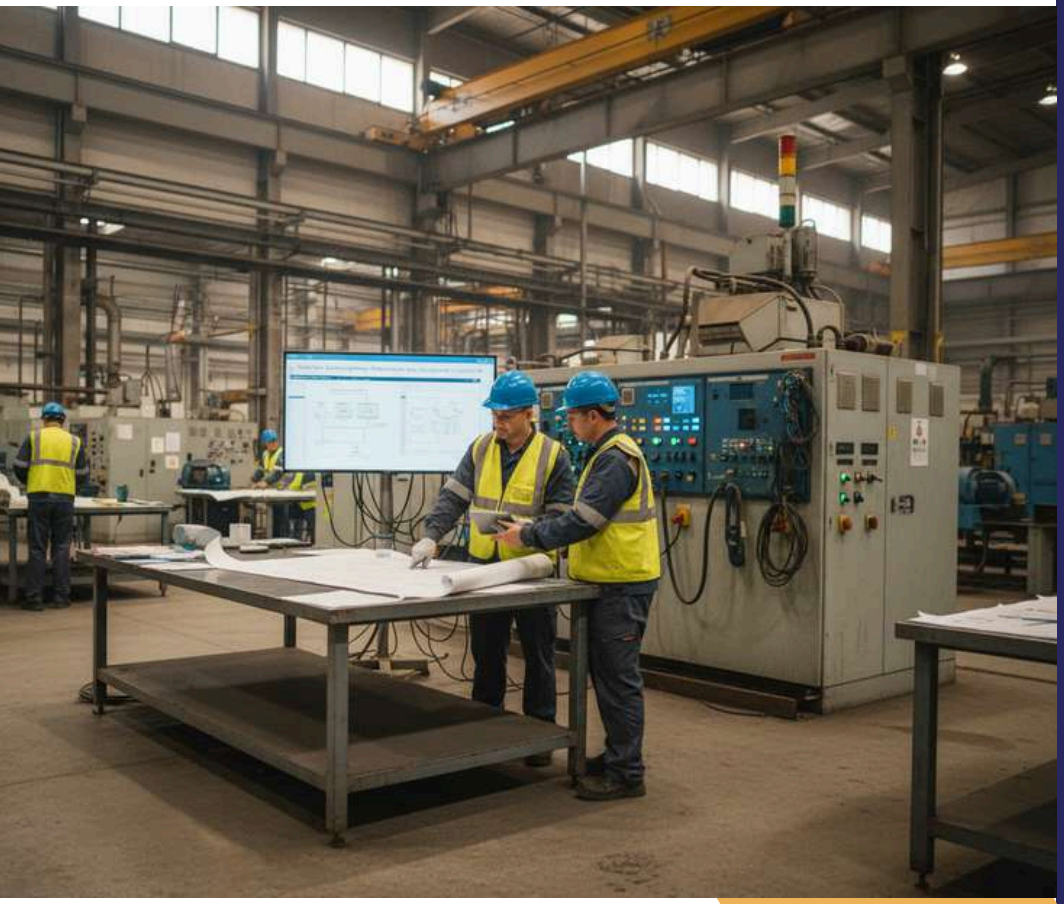
//TITLE INDUSTRIAL CONTROL SYSTEM UPGRADE: ARCHITECTURE REDESIGN AND CYBERSECURITY COMPLIANCE

// SUBJECT 2 :

//TITLE NEXT-GEN TELEMETRY - INDUSTRIAL IT/OT CONVERGENCE: SUPERVISORY SYSTEM UPGRADE FOR OIL SITES

// SUBJECT 3 :

//TITLE CONTROL & INSTRUMENTATION SYSTEM REVAMPING FOR A GAS FACILITY



// 1.

INDUSTRIAL CONTROL SYSTEM UPGRADE: ARCHITECTURE REDESIGN AND CYBERSECURITY COMPLIANCE (REF : AUTOM-01)

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// 1. DESCRIPTION

Comprehensive review and analysis of an existing real-case industrial control system, including reverse engineering and reconstruction of engineering documentation. Based on the currently implemented unit logic, the objective is to design a new architecture for the upgraded system, integrating new units while ensuring compliance with key IEC 62443 cybersecurity requirements to propose a more secure and robust control infrastructure.

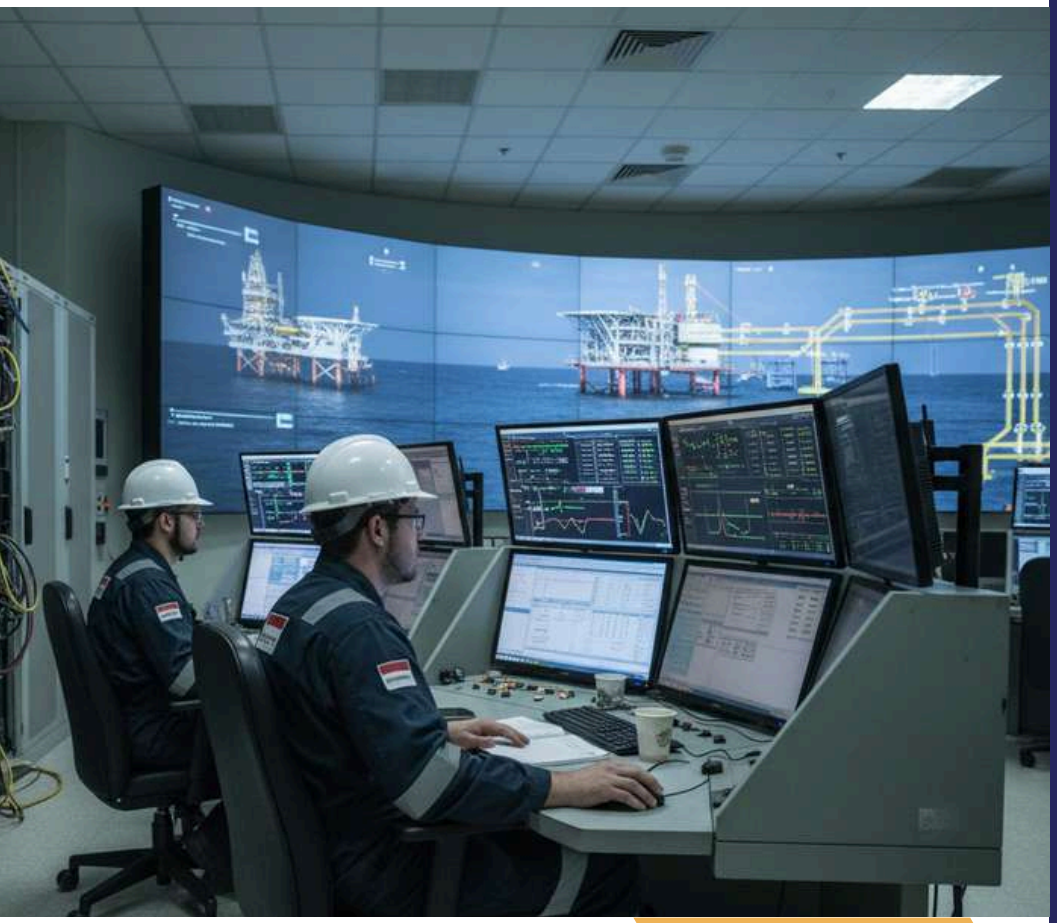
// 2. KEY MISSIONS

- Conduct research and produce documentation on major industrial automation technologies and communication protocols, including SCADA, DCS, RTU, PLC, OPC, Modbus, DNP3, and related standards.
- Analyze the existing DCS: architecture, control strategies, philosophy, synoptics...
- Perform reverse engineering and rebuild documentation (architecture, logic diagrams, functional descriptions)
- Propose the new control logic and migration plan for system upgrade.
- Integrate IEC 62443 cybersecurity measures into the future architecture.

// 3. WHY JOIN US?

- Join a team working on real industrial systems with tangible operational impact.
- Gain hands-on experience in DCS/SCADA technologies, automation protocols, and ICS cybersecurity.
- Work on a high-value project combining reverse engineering, system design, and modernization.
- Be guided by experienced engineers who will support your technical and professional development.

Contribute to the digital transformation and secure migration of critical industrial infrastructures.



// 2.

NEXT-GEN TELEMETRY - INDUSTRIAL IT/OT CONVERGENCE: SUPERVISORY SYSTEM UPGRADE FOR OIL SITES (REF : AUTOM-02)

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// 1. DESCRIPTION

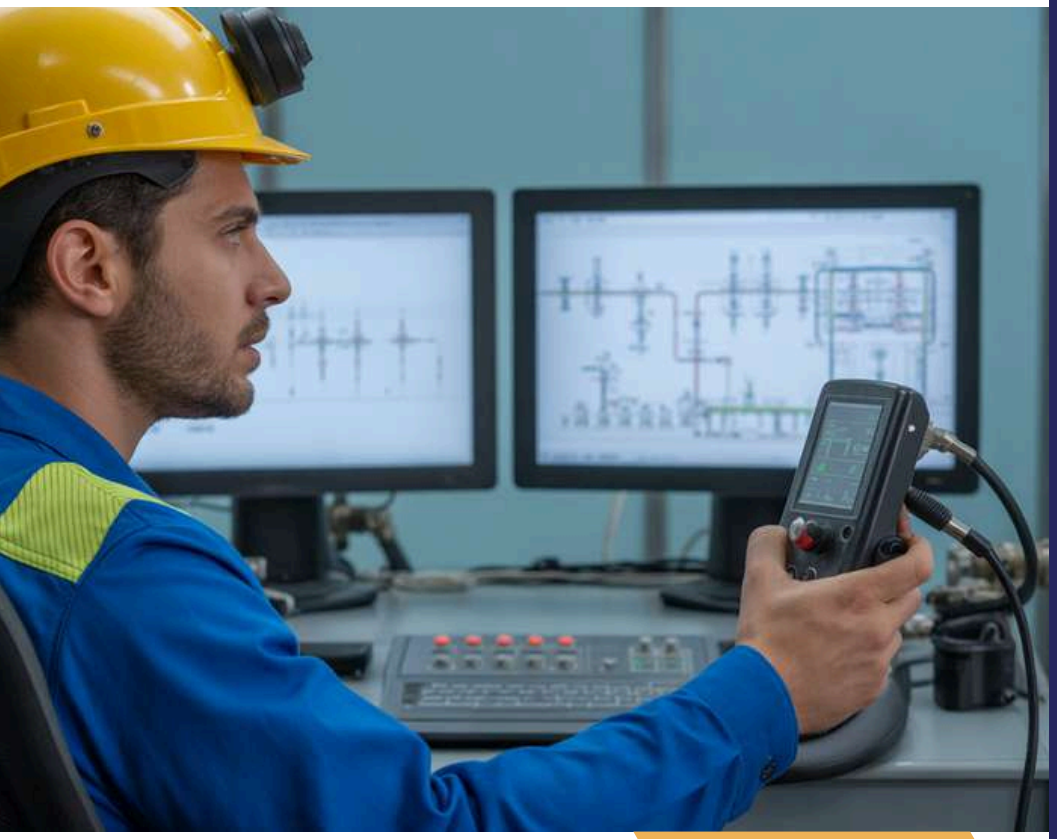
The project focuses on migrating several oil installations currently relying on obsolete PLCs to a more modern and scalable RTU-based solution. The system will be supported by a supervisory architecture leveraging current technologies such as OPC UA, MQTT, and modern SCADA systems. The goal is to combine robust local control with the flexibility of Industry 4.0 communication protocols, enabling seamless centralization and monitoring from a main control room.

// 2. KEY MISSIONS

• Control Engineering
Prepare engineering documentation, implement, and program Remote Terminal Units (RTUs) for remote site management with functional safety reviews when required.
• Interoperability & Data Operations
Deploy a unified communication framework using OPC or MQTT, ensuring data integrity from field transmitters to central servers.
• Advanced Supervision
Contribute to the development of a centralized SCADA system, including production KPI integration and automated reporting to support operational decision-making.

// 3. WHY JOIN US?

- Work on real onshore and offshore oil facilities, tackling the modernization of critical control systems.
- Gain hands-on experience with RTUs, modern SCADA systems, and Industry 4.0 protocols (OPC UA, MQTT).
- Contribute to the digital transformation of legacy industrial systems, enhancing efficiency, safety, and cybersecurity.
- Collaborate with experienced engineers in a dynamic, innovative, and technology-driven environment.
- Develop highly sought-after skills in industrial automation, IT/OT integration, and centralized control architecture.



// 3.

CONTROL & INSTRUMENTATION SYSTEM REVAMPING FOR A GAS FACILITY (REF : AUTOM-03)

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// 1. DESCRIPTION

This project focuses on the complete revamping of the Control & Instrumentation (C&I) systems of a gas facility. The objective is to migrate from a conventional architecture to a modern, centralized digital solution, optimizing both operations and maintenance.

// 2. KEY MISSIONS

• Detailed Engineering
Study and prepare specifications for next-generation instruments and control valves, including sizing, calculations, and ATEX compliance.
• Advanced Control Design
Design the architecture and program the new DCS and safety systems (ESD/FGS), including server virtualization.
• Smart Asset Management
Implement digital communication technologies (HART/Fieldbus) to capture equipment diagnostics, enabling predictive maintenance strategies.

// 3. WHY JOIN US?

• Complete Engineering Cycle (EPC): Follow the full project lifecycle from specifications to design and implementation, gaining end-to-end experience.
• Critical Environment: Develop the discipline and rigor required to work in high-risk industries such as Oil & Gas, Chemicals, and Pharma.
• Current Technologies: Work with state-of-the-art engineering tools for control and safety system design.
• Digital Transformation: Contribute to the modernization of Control & Instrumentation systems in a real gas facility.
• Advanced Systems & Smart Asset Management: Gain hands-on experience with DCS, ESD/FGS, HART/Fieldbus, predictive maintenance, and server virtualization.

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HOW TO APPLY

Don’t just start your career. Engineer it.

Choose a subject

Send your CV + Motivation
Mention the subject reference in email title

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SCAN FOR MORE INFO