



NILE AUTOMATION SYSTEMS ARABIA

Robust **E**ngineering - Renowned **E**xpertise - Profound **E**xperience

Nile Automation Systems Arabia is one of the pioneers in the industrial automation solutions and services domain with more than 20 years of experience.

Head Office
UAE



THE COMPANY

Nile Automation Systems Arabia is one of the pioneers in the industrial automation solutions and services domain. Our competency comes from over 20 years of industrial experience and a strong presence in the world's major industrial region, United Arab Emirates. We combine innovative engineering solutions with user-friendly automation technologies and state-of-the-art infra. With more than two decade of experience in the field, we offer a wide range of applications and processes including Oil & Gas, Utilities, and Manufacturing.

We are the system integrator of Emerson (Formally GEIP), SIEMENS, Allen Bradley, Honeywell, Schneider, Vipa (Yashkawa) & many other prominent brands. We offer solutions to companies big and small alike across a wide range of industrial segments. At Nile, we leverage the full potential of digital manufacturing by offering turnkey integrated PLC/SCADA based solutions as well as DCS based solutions for discrete, batch, safety and continuous processes. Our team comprises of seasoned engineers and skilled technicians who are capable of fulfilling the requirements inline with project specifications and adhering to local regulations and other compliances.

We are the one-stop solution to all your automation needs. We make automation seamless. Our seamless solutions simplify, improve, and integrates themselves within the process in an agile, organized, and intellectual manner. We are customer-centric and offer value-driven solutions with enhanced standards at 100 percent reliability and transparency.

We follow international standards in developing the application software with software object libraries and user defined libraries. We take the time to develop the process application software prior to delivery assuring the robustness of the application software, shortening the startup and commissioning period, and minimizing operation downtimes.



- **Specialized in TUV certified systems, liquid separator, Fire and Gas systems**
- **2000 sq.ft well equipped facility for panel testing and staging.**
- **Strong process and automation expertise for implementing complex requirements**
- **Dedicated team of engineers and technicians for continuous and comprehensive support**
- **Customer-centric and value-driven solutions with 100% transparency.**





At Nile Automation, we bring our experience to the table, we offer comprehensive solutions taking care of all aspects of the control system including:

- ✓ System Architecture Design
- ✓ Control Application Software Development & Testing
- ✓ Instruments Procurement
- ✓ Control Hardware and Instrumentation Selection
- ✓ Control Panels Design
- ✓ Field Wiring and Containment System
- ✓ Instruments Field Installation
- ✓ Factory Acceptance test
- ✓ Control Panels Assembly
- ✓ Integrate the Plant Information with the Enterprise Data Management System
- ✓ Interface with Other Control Systems and Subsystems
- ✓ Commissioning and Startup

Nile Automation brings in rich and varied knowledge of instrumentation plus automation for multiple process industries. Our in-house ability to design and build electrical power and control panels enables us to be the single source for all of your Electrical, Instrumentation, and Controls needs. Our production capabilities including the design and assembly of the below mentioned

- ✓ Soft Starters Panels
- ✓ DOL and Star-Delta Starters
- ✓ Main Distribution Boards (MDB)
- ✓ Distribution Boards (DB)
- ✓ Low Voltage Motor Control Centers (LV MCC)
- ✓ Fiber Optic and communication panels
- ✓ Telemetry and communication cabinets
- ✓ Sub-Main Distribution Panels (SMDB)
- ✓ Variable Frequency Drives (VFD) Panels
- ✓ RTU Panels
- ✓ PLC and I/O Control Panels

INSTRUMENTS:

- ✓ Pressure Transmitters
- ✓ pH meters
- ✓ Oxygen Analyzers
- ✓ Conductivity Meters
- ✓ Temperature Transmitters
- ✓ Level transmitters – DP type, Ultrasonic type, Radar type
- ✓ Flow Meters – Differential , Magnetic ,Mass flow, Turbine and Vortex
- ✓ Differential Pressure Transmitters





With a unique blend of core expertise and decades of experience in different OT and IT technology platforms, we offer comprehensive solutions with significant focus on the application software development and testing. Our MES modules can help you with the following

- ✓ Plant KPI Monitoring
- ✓ Product Genealogy / Traceability
- ✓ Paperless Manufacturing
- ✓ Workforce Guidance
- ✓ Plant KPI Monitoring
- ✓ Central Recipe Management System and Auto recipe downloading to machines
- ✓ Auto Production Confirmation in ERP, SKU-wise from each machine
- ✓ Shop-floor Inventory Management & FIFO
- ✓ Interlocks to avoid Wrong Material Loading
- ✓ Stage-wise Poka-Yoke Implementation on Material feeding (Correct part, correct sequence, correct measurement)
- ✓ MHE Tracking in Stock Area (RM / FG / SFG)
- ✓ Capturing of Process Parameters and Abnormality Alerts
- ✓ Live Plant Dashboards & Display that can be viewed anywhere:
 - Workplace status
 - WIP status
 - Consumption update against production order
 - Plan Vs Actual
 - Traceability (if barcode/RFID option is opted)
 - CTQ and performance reports



OUR EXPERTISE

NileAutomation comprises an expert team of project managers, design engineers, software developers and commissioning engineers engrossing the clients. The robust and incorporated project team enables our clients in process industries to

acquire, deploy, manage and implement state of the art and a wide range of process solutions. With this immense industry know-hows and expertise, we have positioned ourselves as one of the leading solution providers in our chosen market sectors.

WATER

- District Cooling Plant & ETS Automation
- Water Distribution & Pumping Station Automation
- Water & Waste Water Treatment Automation
- Sewage treatment Plant (STP)
- Metering System (AMR)

UTILITIES

- Product Manufacturing System
- Material handling system
- Data Logging & Reporting
- Telemetry solutions
- IoT, IIoT & Cloud based solutions
- MES & Industry 4.0 based solutions

OIL & GAS

- Fire & Gas Detection
- ESD Systems(TUV certified), SIL2 & 3
- Tank Farm & Terminal Automation
- Pipeline Automation
- Valve Automation


POWER

- Substation Automation
- Boiler & Combustion Management Automation
- Solar Power Generation & Monitoring





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