Mohamed Gamal Eltantawi
Industrial Automation Engineer
Abu Dhabi, UAE

✉ mohamedeltantawy024@gmail.com

☎ +971 50 310 9276 | +20 101 139 2374

🔗 LinkedIn: [Mohamed Eltantawy](#)

PROFESSIONAL SUMMARY

Industrial Automation Engineer with hands-on experience in **PLC, SCADA, and DCS systems** across **Oil & Gas, Steel, and Cement industries**. Proven expertise in **Siemens PCS 7, S7-1500, WinCC, Ignition, and AVEVA SCADA platforms**, with solid involvement in **FAT, IFAT, SAT, and commissioning activities**. Strong background in **ICSS, SCMS, IIoT integration**, industrial networks, and control system testing. Adept at working in multicultural project teams and delivering reliable automation solutions aligned with international standards.

PROFESSIONAL EXPERIENCE

External Assignment – Automation Engineer
Siemens Energy, UAE | Apr 2025 – Present
Salt Dome Project (Oil & Gas)

- Designed and programmed control logic using **Siemens PCS 7**.
- Participated in **Hardware FAT** for **ICSS and SCMS** systems.
- Attended **Integrated FAT (IFAT)** activities.
- Acted as **ICSS Engineer** during Software FAT.
- Served as **SCMS Engineer** during **SAT and commissioning** phases.
- Developed a **Data Concentrator** integrating **LV Switchgear (LVSW)** with **SCMS and ICSS**, ensuring seamless system communication and operational reliability.

Site Surveys

- SHAH, HABSHAN, ASAB facilities

Automation Engineer
Imhosys | Sep 2024 – Present
Sinai Cement Grey Plant – PCS 7 Upgrade Project

- Supported the upgrade of Sinai Cement Grey Plant from Allen-Bradley PLCs to Siemens PCS 7 DCS using CEMAT Minerals Library.
- Developed WinCC SCADA and control logic using FBD via CFC.
- Configured Siemens controllers (S7-400, ET200SP / ET200SP HA, CPU 1512 & 1514).
- Contributed to network architecture understanding and automation material selection for Phase-3 upgrade.

Minya Dust Steel Project

- Developed and configured automation software using **Siemens S7-1500 PLC**.
- Designed and implemented **SCADA system using SIMATIC WinCC V8.0**.
- Participated in **FAT, IFAT, and SAT**, ensuring system compliance and reliability.
- Supported **commissioning, troubleshooting, and system validation** on site.

Senegal Cement Plant

- Supported **SAT and commissioning activities** under senior engineers' supervision.
- Worked with **Siemens S7-1500 PLCs** for process automation.
- Assisted in **SCADA design and implementation using AVEVA Platform**.

General Responsibilities

- PLC, HMI, and SCADA programming and troubleshooting
- DCS configuration and functional testing
- Cross-functional coordination with client and project teams
- Validation, FAT documentation, and control system testing

EDUCATION

Bachelor of Engineering (B.Sc.) – Electrical Engineering

Mansoura University, Faculty of Engineering | Jun 2024

- Major: **Electrical Power & Machines**
- Cumulative Grade: **Very Good (82.86%)**

Graduation Project:

Automation of Power Distribution Grid for Smart Cities — **Grade: Excellent**

- Designed residential electrical infrastructure (concept, schematic, detailed stages)
- Integrated smart devices to convert conventional grids into smart grids
- Designed **on-grid solar PV systems** for residential villas
- Implemented **grid–solar integration**
- Developed **IIoT monitoring system using Node-RED**
- Built intelligent **SCADA system using Ignition**

TRAINING & CERTIFICATIONS

ADNOC H2S Training – ATA UAE | Aug 2025

ADNOC HSE Induction – ATA UAE | Aug 2025

PLC Advanced Programming – HA Consulting Group, Egypt | Jul–Sep 2023

- Siemens PLC S7-300 & S7-1200
- Programming languages: **FBD, STL, SCL**
- Communication: **MPI, Modbus, Profibus, Profinet, Ethernet**
- SCADA: **SIMATIC WinCC, InduSoft**
- HMI: Siemens, Delta, Schneider

Practical Projects
- Color Mixer System (S7-1200, Modbus RTU, WinCC, Node-RED)
- Six-Floor Elevator (S7-300, SCL, Encoder, HSC, WinCC)
- Sorting System (S7-300, Profibus, VFDs, WinCC)

Classic Control & Basic PLC – HA Consulting Group | Jan–Mar 2022
Port Operations & Electrical Systems – Damietta International Port | Sep–Oct 2022
Electricity Production Training – Middle Delta Power Plant | Jul–Aug 2022

ONLINE COURSES
- Ignition SCADA – Inductive Automation University (Jul 2024)
- IIoT (Node-RED, OPC-UA, MQTT, MySQL) – CodeAndCompile (Nov 2023 – Feb 2024)
- Electrical Distribution Diploma – Online Experts (Jul–Oct 2022)
- Project Management Fundamentals – American Chamber of Commerce (Oct 2022)
- Schneider Electric University – 60 Electrical Engineering Courses (2024)

TECHNICAL SKILLS
- **PLC & DCS:** TIA Portal, SIMATIC Manager, PCS 7
- **SCADA & HMI:** WinCC (Classic, Flexible, Unified), Ignition, InduSoft, AVEVA
- **IIoT & Communication:** OPC-UA, MQTT, Node-RED, Modbus, Profibus, Profinet
- **Engineering Tools:** AutoCAD, ETAP, DIALux evo
- **Other:** ICDL (Word, Excel, PowerPoint), Remote Collaboration Tools

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SOFT SKILLS
- Analytical & research-oriented mindset
- Strong communication and teamwork
- Ability to work under pressure
- Ethical, reliable, and highly motivated
- Continuous learner

LANGUAGES
- Arabic: Native
- English: Upper-Intermediate (B2)

REFERENCES
Available upon request