

## **Mohamed Salama**

### **Instructor**

#### **Career synopsis**

Dr. Mohamed S. stands as a distinguished figure in the field of electrical and system control engineering, blending an impressive 18-year professional journey with a robust academic background, including a PhD in Electrical Power and Control. His career is marked by deep expertise in the design, maintenance, and troubleshooting of complex control systems across various industrial settings.

Mohamed's technical prowess spans a wide range of PLC systems, including those from Allen Bradley, Siemens, and Schneider, as well as extensive experience with SCADA systems, HMI, and the Yokogawa ESD system. His work is not confined to technicalities; he has also played a critical role in the commissioning, startup, and upgrade of systems, ensuring they meet the stringent operational and safety standards of today's industrial demands.

Since 2024, Mohamed has leveraged his vast field experience at the Technical Education Academy as an Associate Instructor. In this role, he imparts knowledge on core PLC concepts and modern industry practices, ensuring that his courses remain cutting-edge. His methodological approach to teaching involves hands-on instruction and mentoring, emphasizing the practical application of theoretical concepts, which is critical in the field of electrical and control engineering.

Previously, as a Senior Turbo-machinery Control Engineer, he supervised and maintained essential plant control systems, providing technical leadership in the implementation of new projects and modifications to existing systems. His role involved ensuring the reliability and efficiency of critical equipment, such as gas turbines and compressors, often interfacing with high-level control systems to optimize plant operations.

Mohamed's career is further highlighted by his role as a Systems and Services Engineer, where he gained experience across different sectors, including water treatment and manufacturing. His ability to design and implement tailored solutions to complex engineering problems has established him as a trusted consultant in the automation and control systems space.

Educationally, Mohamed has complemented his field expertise with academic achievements, earning a master's degree in control system and a PhD, which have underpinned his technical and instructional roles. His teaching extends beyond the classroom, having delivered numerous courses on SCADA, PLC, and electrical control systems, preparing the next generation of engineers to meet the challenges of modern industrial environments.

Overall, Dr. Mohamed S. exemplifies the blend of in-depth technical expertise, academic excellence, and practical teaching ability, making him a pivotal figure in electrical and control engineering education. His career reflects a commitment to advancing both the field of engineering and the practical skills of those entering or advancing within the industry.

#### **Professional experience**

**April 2011-Until now - Senior Control System Engineer - Rashpetco-shell JV, egypt**

- Maintenance and troubleshooting for DCS, ESD, and F&G Yokogawa product systems. Supervision on commissioning and startup activities for all E/I activities such as ( DCS, BMS, ESD, F&G, PLC, SCADA Wells head, HIPPs system, RTUs, Earth system, Switchgear, Gas generators, Compressors, Ex equipment, identified hazard area classification, solar cell system for wells.  
Provides technical assistance for the start-up of facility additions and ensures key documents (drawings, procedures, process functional descriptions, cause, and effects, etc.) are developed and maintained in an as-built status.  
The operation, maintenance, and troubleshooting of NOUVO-PIGNONE PGT25+ Gas-Turbine compressor Set, with Mark VIe control system, Simplicity HMI, 3500 Rack Configuration, and HImatrix fire and gas system.
- Curriculum development
- Personnel training
- Knowledge test / assessment

**July 2009-April 2011 - Control system engineer - An Authorized system integrator of Rockwell automation AB, Egypt**

- Working as a service engineer, consulting and proposing a technical solution for Allen Bradley products in different industrial sectors
- Curriculum development
- Personnel training
- Knowledge test / assessment

**January 2005-July 2009 - Control system engineer - An Authorized system integrator of Schneider Electric, Egypt**

- works in automation, services, consulting, and training fields, Integrating different brands and types of PLC, SCADA, and HMI, besides Schneider's products in automatic control applications and solutions.
- Curriculum development
- Personnel training
- Knowledge test / assessment

**Education and qualifications**

| Type              | Name   |
|-------------------|--|
| 2014 - 2019, Ph.D | Ain shams faculty of engineering, Electrical control |

**Language: English**