

Holds a B. Sc. in Electronics Engineering (Computer & Control Systems) and has about 14 years of expertise in design, configuration, commissioning and maintenance of Yokogawa DCS systems, specifically in the power generation sector.

PERSONAL DATA

Nationality : Egyptian
Gender : Male
Residence : Dakhalia

EDUCATION

: B. Sc. in Electronics Engineering (Computer & Control Systems), Mansoura University

LANGUAGES

Arabic : Native Language
English : Good

COMPUTER SKILLS

: Windows, MS Office, Internet

TRAINING COURSES AND CERTIFICATIONS

- : One month Gas Turbine (GE Speedtronic™ Mark VIe) control maintenance Training Course developed by GE Company in site.
- : One month Yokogawa DCS training: Centum VP maintenance in Yokogawa Middle East & Africa in Bahrain.
- : One month HRSG maintenance (Design, I&C, Pressure parts, Valves and actuators, MCC, Main components) in Ansaldo Caldaie Company in Italy.
- : One month ABB – Harmony Base – Composer Configuration: in Banha Power Plant.
- : One month Substation Automation System SICAM PAS (Siemens) in Banha Power Plant.
- : Complete Machine Learning and Data Science with Python.
- : Python for Data Science.

CHRONOLOGICAL EXPERIENCE RECORD

Dates : From Jan. 2014 till now
Employer : Middle Delta Electricity Production Co.

Job title	: Senior DCS Engineer
Job Description	: <ul style="list-style-type: none"> • Key Achievements: <ul style="list-style-type: none"> - Successfully led the commissioning and start-up of Yokogawa DCS systems in major power plant project, contributing to a safe and timely completion. - Designed and optimized control loops that enhanced plant efficiency, resulting in significant fuel savings and emission reductions. - Spearheaded a critical system migration project, upgrading outdated DCS hardware and software with minimal downtime, enhancing plant performance and reliability. - Developed and implemented a comprehensive preventive maintenance program for DCS equipment, which reduced unplanned shutdowns. - Collaborated closely with operations, maintenance, and engineering teams to resolve complex process control challenges, ensuring safe and efficient plant operations. • DCS Design, Configuration and Programming: <ul style="list-style-type: none"> - Configured and customized Yokogawa Centum VP system, creating logic diagrams, control loops, and alarm management configurations tailored to power plant applications. - Programmed process sequences, interlocks, and control logic for boiler and balance-of-plant (BOP) equipment, ensuring smooth integration and performance. - Optimized control strategies for process stability, energy efficiency, and environmental compliance. • Maintenance and Troubleshooting: <ul style="list-style-type: none"> - Monitored and maintained Yokogawa DCS systems to ensure 24/7 reliability, promptly addressing hardware and software issues to minimize plant disruptions. - Diagnosed and resolved complex issues, utilizing trend analysis and system logs to identify root causes and implement corrective actions. - Developed preventive maintenance schedules and predictive analysis for critical DCS components, reducing risk of unplanned outages. - Performed all maintenance, troubleshooting and site modification (add/delete/modify) signals to the existing configuration for software and hardware including (modules-points-logic-graphics) for Yokogawa DCS and service description for the respective loops as per the details/feedback from the operator. - Planned and executed all maintenance during scheduled plant outages, minimizing downtime and ensuring all work was completed on schedule. • Documentation and Compliance: <ul style="list-style-type: none"> - Maintained comprehensive documentation, including loop diagrams, functional specifications, and logic diagrams, in compliance with regulatory standards and internal protocols. - Ensured compliance with health, safety, and environmental (HSE) standards during all DCS-related activities. - Regularly updated operating manuals and emergency response procedures, improving safety and operational reliability.

- Team Collaboration and Training:
 - Provided mentorship and training to junior engineers and technicians on DCS systems, best practices, and safety protocols.
 - Coordinated with cross-functional teams, including operations, maintenance, and safety, to support troubleshooting and preventive maintenance efforts.
 - Facilitated regular workshops and knowledge-sharing sessions to foster continuous improvement and technical expertise within the team.

Dates	:	From Jan. 2011 till Jan. 2014
Employer	:	Middle Delta Electricity Production Co.
Project	:	Banha Power Plant
Job title	:	I&C Engineer
Job Description	:	<p>System commissioning and start-up:</p> <ul style="list-style-type: none"> • Conducted site acceptance testing (SAT) of DCS systems to ensure compliance with design specifications and operational standards. • Led the commissioning and start-up activities for critical plant systems, including fuel handling, steam cycle, water treatment, and auxiliary systems. • Tested control system installation, including grounding and power distribution, system interconnections, loop checking, and network installation. • Trained operations and maintenance personnel on DCS functionalities, troubleshooting, and operational best practices. • Tested most of types of field instruments and made all activities such as (Calibration, Installations, commissioning and loop check with control system). • Performed all required tests, reviewed P&ID, loop, logic drawing and commissioning logic software, recommended and implemented improvements and modifications and changes in order to avoid the recurrence of complex errors. • Tested received materials and equipment at site to ensure their correct manufacture, model, functionality, and type according to contract and plan and develop its spare parts preparation. • Designing, implementing, and testing a wide range of I/O, basic control functions, interlocks, sequences, operator interface, and other control components on automation. • Collaborated with Yokogawa engineers and vendors to ensure project objectives and engineering drawings were met within budget and on time.
Field of experience	:	<ul style="list-style-type: none"> • Proven track record of implementing reliable automation solutions, optimizing plant performance, and ensuring compliance with safety standards. Skilled in troubleshooting, preventive maintenance, and system upgrades, with a strong commitment to achieving operational excellence and enhancing system efficiency. Known for effective collaboration with cross-functional teams to support safe, continuous, and efficient plant operations. • Computer network and PC maintenance.

- Hardware and software installations and Automation understanding.
- Application programming, Software development, Engineering and technology.
- I have very good courses and experiences in data science and analysis using the Python programming language.
- I have good experience in data processing and dealing with different databases.
- I can automate extracting data from csv, xlsx files and database to make professional reports using the Python.