Mostafa Maher

Cairo, Egypt **|** Male **|** Egyptian

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Summary

As an Application Design Engineer within the Digital Energy Team at Schneider Electric, I specialize in designing and implementing power automation and substation automation solutions. I utilize various software tools including EcoStruxure Power Operation, EcoStruxure Power Monitoring Expert, EcoStruxure Machine Expert, EcoStruxure Control Expert, and Easergy Builder. Additionally, I hold EPAS certification at level 1 and 2, enabling me to work with Schneider's EcoStruxure Power Automation System, a platform that seamlessly integrates power distribution, protection, energy management, and automation.

My job focuses on configuring SCADA, PLC, and RTU systems, designing and building databases, and handling Factory Acceptance Tests (FAT), Site Acceptance Tests (SAT), and commissioning. I have experience with various communication protocols, including IEC 61850, Modbus TCP/IP, and Modbus Serial.

Experience

Application Design Engineer
Schneider Electric · Full-time
Dec 2022 - Present · 2 yr. 3-month Egypt

Projects: -

- **HMG Takhassui / HMG Sahafa in Riyadh (KSA) - Site and Engineering – Medical Project**
Design and build EcoStruxure Power Operation (EPO) webHMI SCADA and PLC/RTU configuration for Dr. Sulaiman Al Habib Medical Group huge hospitals in Saudi Arabia.
- **Masjid al-Haram (KSA) – CUC (Central Utility Planet) – Commissioning – Substation Automation Industry**
Configure protection sepam protection relay to communicate with ABB SCADA through IEC61850 protocol and Troubleshoot system.
- **TCO (Kazakhstan) – Engineering & Perform FAT – Oil & Gas Industry**
Configure PLC programs for 16 Hot Hot PLC for Tengizchevroil in Kazakhstan and configure GPS &Switches and Firewalls in the Automation panels perform FAT with customer.
- **Amazon (USA) – Engineering – Data Center**
Design and build EcoStruxure Power Operation (EPO) webHMI SCADA for Amazon data center site in USA.
- **Cloud HQ (France) – Engineering – Data Center**
Design and build EcoStruxure Power Operation (EPO) webHMI SCADA for Cloud HQ data center site in France.
- **Alex Cairo Corridor (Egypt) – Site Activates – Railway**
Perform commissioning of the automation panels for the Cairo-Alex Corridor.
- **EACOP (Egypt) – FAT Activates – Oil & Gas Industry**
Perform FAT of the automation panels for the EACOP.
- **Mahalla Weaving (Egypt) – FAT - Substation Automation Industry**
Configure PLC program and perform FAT of the automation panels.

Industrial Digital Solution

Giza Systems · Full-time

Sep 2022 - Dec 2022 · (4 months)

Safety and Risk assessment

Orascom Construction PLC

Aug 2021 - Aug 2021 (1 month)

- Introduction to OSHA -Fire Prevention and Protection -Hazard Identification and Risk Assessment -Hierarchy of Risk Control

-Personal Protective Equipment - Chemical Hazard Communication -Excavation and Trenching – Confined Space Entry - Cranes - Lifting and Rigging - Heavy Equipment

Skills: -

SCADA Systems: -
- Ecostruxure power operation
- EcoSUI
- Vijeo Designer (HMI)
- Power Monitoring Expert (Reporting System)

PLC: -
- HW: M580/M340/M251/M221
- SW: Ecostruxure Control Expert / Ecostruxure Machine Expert /Ecostruxure Machine Expert Basic

Communication Protocol Knowledge: -

- Modbus TCP/IP / Modbus Serial / IEC61850

Graduation Project

The design of a Substation Automation System includes two-line feeders and a bus coupler for transitioning between two busbars, complemented by high voltage protection and interlocking sequences. A SCADA system, implemented using Wonderware InduSoft Web Studio, connects to the hardware and enables:

Controlling: Sending control signals to equipment (e.g., circuit breakers, disconnectors, earthing switches) for specific actions like opening or closing.

Monitoring and Measuring: Providing real-time status (open/closed) for system elements, event displays, and real-time electrical parameter readings via devices like digital multimeters and sensors, allowing for power flow indication.
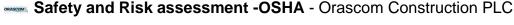
Education

Cairo University
Bachelor's degree, Electrical Power and Machines Engineering 2017-2022

Grade: Cumulative Degree: Very Good

Graduation Project: Excellent

Licenses & Certifications

Safety and Risk assessment -OSHA - Orascom Construction PLC

Safety and Risk assessment

Skills

MATLAB • English • Control Systems Design • Swimming • Engineering • Engineering • C++ • English • Chinese