

Holds a B. Sc. in Electrical Power & Machines Engineering and has over 3 years experience working in substation automation / control.

## PERSONAL DATA

Nationality : Egyptian  
Birth Date : 05/01/1996  
Gender : Male  
Residence : Maadi, Cairo

## EDUCATION

: B. Sc. in Electrical Power & Machines Engineering, Cairo University, 2018  
: Pre-Master in Control Systems Engineering, Cairo University, 2020

## LANGUAGES

Arabic : Native Language  
English : Good

## COMPUTER SKILLS

: Windows, MS Office, Internet  
: SICAM PAS, SICAM SCC (WinCC), KEPServerEx OPC, DIGSI, Toolbox, SICAM Device Manager, TIA Portal, Unity Pro XL, Vijeo Designer  
: Programming Languages: ST, LD, FBD and IL; C and VBA; SQL

## CHRONOLOGICAL EXPERIENCE RECORD

**Dates** : From Aug. 2022 till now  
**Employer** : SIEMENS  
**Projects** :

- El-Tebbin 66/11-6.6KV Substation (RTU)
- Benban 500/220/22KV Substation (RTU)
- El-Eqtasadya 500/220/66/22KV Substation (SAS)
- Designed a new template for technical offers
- Designed a new more efficient SCADA system for substations
- Currently working on Kom Ombo 200MW PV power generation station

**Job title** : RTU Engineer

**Dates** : From Oct. 2021 till Jul. 2022  
**Employer** : SEPA Company

**Projects** :  
• Abelhamid Factory:  
- Mitsubishi FX3U PLC and GS2110 HMI, Schneider ATV320 drives.  
- Monitoring and controlling of a fully automated metals electroplating production line.  
• SHACO Factory: Designing a new control and monitoring system to replace the existing classic control system of a very old welding machine (Mitsubishi FX3G PLC and GOT2000 HMI).

**Job title** : Automation Systems Engineer

**Dates** : From Jul. 2020 till Oct. 2021

**Employer** : MAS Trading Co.

**Projects** :  
• Upper Egypt Mills:  
- Monitoring of silos temperature and applying Control to cooling fans.  
- WinCC 7.5 SCADA, S7-1200 PLC, and Arduino as slaves for collecting temperature readings.  
• 6th October Water Pumping Station:  
- Applying pump sequence to control the water flow and pressure.  
- M340 PLC, Harmony GTU HMI, ABB ACS880 drives, Flow, Level and Pressure Transmitters.  
• GIZ:  
- Collecting flow and pressure readings from 124 sites around Egypt.  
- Sending these data to a main FTP server via 3G Communication for monitoring and reporting.  
• Sharqya Water Company: Monitoring and reporting flow and pressure readings collected from many district areas around the whole governorate (Movicon 11.6 SCADA).  
• Raya Foods Factory: Monitoring and reporting two flow meters to ensure efficient production (Movicon Next).  
• Acrow Misr Factory: Controlling of a cutting machine to ensure human safety (M221 PLC).  
• Lafarge Factory: Applying valve sequence to control an air dryer machine (Siemens LOGO PLC).  
• Mostorod Water Station: Troubleshooting and editing the PLC program of 10 control panels (S7-1500 PLC).

**Job title** : Control Systems Engineer

**Dates** : From Feb. 2020 till Jun. 2020

**Employer** : MAS Trading Co.

**Job title** : Presales Engineer

**Dates** : From Feb. 2019 till Feb. 2021 (part time)

**Employer** : Cairo University

**Job title** : Teaching Assistant

**Field of experience** :  
• Performing field inspection.  
• Understanding and analyzing customer needs and design requirements.  
• Designing and selecting controllers, control panel components, and field instrumentation.

- Making technical and commercial offers and following up jobs from RFQs till getting purchase order.
- HMI and SCADA systems engineering.
- PLC programming using IEC61131-3 programming languages.
- Writing scripts to manipulate data to create the required reports.
- IEDs engineering to apply interlocking, protection functions, and GOOSE messaging.
- RTU engineering to collect and send signals through different Serial and Ethernet protocols.
- Designing architecture diagrams using different redundancy protocols including: RSTP, PRP, and HSR.
- Field instrumentation commissioning.
- Configuring motors drives to carry out the proper motion control.
- Developing and delivering trainings.
- Performing commissioning and start-up activities.
- Serial Protocols: Modbus RTU, Profibus DP, and IEC60870-5-101.
- Ethernet Protocols: Modbus TCP, Profinet, IEC61850, and IEC60870-5-104.