Holds a B. Sc. in Electrical Power & Machines Engineering and has about 12 years experience working in SAS, protection, commissioning and as Technical Project Engineer.

PERSONAL DATA

Nationality	**:**	Egyptian
Birth Date	**:**	15/05/1989
Gender	**:**	Male
Marital Status	**:**	Married

EDUCATION

	:	B. Sc. in Electrical Power & Machines Engineering, Helwan University, 2011

LANGUAGES

Arabic	**:**	Native Language
English	**:**	Good

COMPUTER SKILLS

	:	Windows, MS Office, Internet

CHRONOLOGICAL EXPERIENCE RECORD

Dates	**:**	From Jun. 2017 till now
Employer	**:**	Schneider Electric
Job title	**:**	Senior Technical Project Engineer
Job Description	**:**	• Energy Automation & Protection Projects Executions.

- Technical Projects System Architecture, Tendering and Offering with Technical and Commercial Offer.
- PACiS Certified.
- C264 database, ISA Graf.
- Cyber-security (Active Directory & GPO).
- Protection Relays configuration, building logic diagram for IEDs such (MiCOM, VAMP, Esergy P3, Sepam, ION).
- IEDs protection testing with secondary injection devices such (ISA, Omicron, Megger).
- Communication networks protocols such (IEC61850, IEC101, IEC103, IEC104, Modbus RTU & TCP, DNP).

Dates	:	From Aug. 2016 till Jun. 2017
Employer	:	Elsewedy Electric PSP
Job title	:	SAS / Protection Commissioning Engineer
Job Description	:	

- Testing & Commissioning of HV & MV substations and switchgear equipment GIS & AIS.
- Substation Automation System (SAS) installation and setup:
    - Schneider Automation System.
    - Sprecher Automation System.
    - Xenon HMI.
    - PACiS HMI.
    - GPS configuration.
    - Communication network (Fiber Optic, Ethernet Copper, Serial).
- Protection and control schemes.
- Protection relays testing:
    - MICOM (P143, P632, P141, P132, ...).
    - SIEMENS (7UT611, 7SJ801, 7SJ803, 7SD613, 7SA611, 7SA522, …).
    - GE (469, 750, …).
    - VAMP (255, 52, 55, 40, 321…).
    - Arcteq (200, 300, …).
- BCU & IED Configurations and database where applicable to meet (SAS) requirements: MICOM C264, GE D25, Sprecher, ABB 560.
- Metering IEDs configuration: ION energy meter, VAMP96, Kael, Janitza.
- Conduct point to point testing with applicable standards and protocols (e.g. IEC61850, IEC-101, IEC-104, IEC-103, and Modbus RTU, and Modbus TCP/IP) either by point initiation or by using protocol tester.
- C.B & CT & VT and Megger test.
- Analysis the system and preparing I/O list and prepare the projects submittals.
- Carry out System Acceptance Tests (FAT, SAT) as per Approved Test Forms, system modification and alterations requirements.
- Configuration & End to End test with NECC (National Egypt Control Center) and RCC (Regional Control Center) via IEC-101 protocol.
- Configuration & End to End test with DCS such as (ABB 800XA with engineering and simulator tool) via protocol Modbus TCP/IP.
- Design stations layouts and system configuration using AutoCAD.
- Ensuring the correct function of the system in accordance with the specifications and the scope of supply.
- Ensure that all work done within fields of activities is carried out according to site safety regulations and procedures to avoid any accidents.
- Spot and immediately report any deviations to the engineering specifications, inputs or targets and to plan corrective actions.

Dates	:	From Jan. 2012 till Aug. 2016
Employer	:	SCADA Innovations
Job title	:	SAS / Protection Engineer
Job Description	:	

- Configuration and testing the link with NECC (National Egypt Control Center) via IEC-101 communication protocol.
- Configuration and testing the link with CRCC (Cairo Regional Control

Center) via IEC-101 communication protocol.
- Design and Commission substation Automation projects with the team of Automation.
- Design system configuration.
- Analysis the system and preparing I/O list.
- Preparation for project submittals.
- Setting and Commissioning for:
  - SPRECON-E control RTUs.
  - SPRECHER protection relays.
  - VAMP protection relays Series.
  - AQ protection relays Series.
  - Siemens protection relays.
  - GE protection relays.
  - FTS devices.
  - KEAL measuring devices.
- Connecting ABB EMAX circuit breaker with master RTU over MODBUS protocol and other activities.
- Setting and interface of IEC61850 & IEC60870-5-104 & IEC60870-5-103 & IEC60870-5-101& Modbus RTU protocols.
- Test communication protocols with protocol tester software as (SAT Protocol tester & IEC application protocol tester).
- Design and install control panel (switches, servers, gateway, UPS, GPS, Printers and interface with bay level).
- Supervise wiring installation and interface between bay level and process level.
- Design substation automation system visualization by using Xenon Software.
- Build Database of the projects by using SPRECON Designer Software.
- Build system configuration by using SPRECON Configurator Software.

Dates	**:**	From Oct. 2011 till Jan. 2012
Employer	**:**	HeatCo International
Job title	**:**	Electrical Control & Maintenance Engineer

Projects:
- West Nile Delta Oil & Gas with British Petroleum.
- Al Ain Al Sokhna Supercritical Power Plant 2x650MW.
- Al Matar Substation Power Plant 220/66/11KV.
- El Obour Substation Power Plant 220/66/22KV.
- Madinaty Substation Power Plant 66/22KV.
- Suez Gulf 500/220/22KV Substation.
- West Damietta Power Plant 250MW.
- AFD 66/22KV Substation.
- Abu Rawash 66/11KV Substation.
- Nakasamba 33/11KV Substation (UGANDA).
- Kakiri 33/11KV Substation (UGANDA).
- APAUS - RURAL ELECTRIFICATION PROJECT AT AFTOUT ELCHARGUI LOT 1 (Mauritania).
- Benban Solar Plant.
- Gedar 2 x 33/11KV Substations (IRAQ).

- Kirkuk 2 x 33/11KV Substations (IRAQ).

Field of experience :
- Technical aspects of the solution (architecture, systems, ...) during execution phases: Design, Integration, Testing, FAT, Installation, Commissioning. Assist the Project Manager in elaborating alternative solutions during change order management. Contribute to meet the project objectives in scope, schedule and cost.
- SAS Projects Tendering and Release: Technical and Commercial Offers, System Architecture.
- SCADA & DCS systems.
- Substation automation control systems.
- Power Systems Protection and schemes.
- Communications with IEDs; protection relays, BCUs, measurement devices and circuit breakers such as (MiCOM, Sepam, ABB, Siemens, GE, Vamp, AQ, Sprecher and Kael) IEDs.
- Communication protocols (IEC-61850, IEC-101, IEC-103, IEC-104 and Modbus).
- Experience with SCADA connectivity: Ethernet Copper, RS-232/485 and Optical Fiber.
- Ethernet, Switches and Time Servers.
- Projects FAT & SAT Onshore & Offshore.
- Conducting SAS & Protection Relays training for customers as a trainer as well as on job training.
- Automation & Protection:
  - Building Project HMI graphics (ECO-SUI).
  - Mapping list for all IEDs signals.
  - Different Programming methods such as FBDs, Ladder Diagram, Isagraph.
  - Configuration of PLC using PACiS System (SCE, SET, CAT, GAT, SAT).
  - Configuration for SCADA software using PSE, PACIS (EcoGTW, PacisGTW).
  - Protection Relays Configuration as per protection schemes.
  - Design and test logic & interlocking as per schemes and logic diagrams.
  - Testing Protection Relays by using Secondary injectors.
- Tendering & Offering:
  - Studying project specs & customer requirements.
  - Building System Architecture.
  - Building the commercial & Technical offer.
- Communication Network:
  - Experience with IEC 61850, Modbus, T101, T104, T103 DNP3 and OPC.
  - Different troubleshooting softwares as Wireshark, dbgViewer, etc…
  - Experience with redundant network protocols such as RSTP, MRP, PRP, etc….
- Generator Management System (GMS):
  - Load shedding and Load sharing (iFLS).
  - Tuning PID parameter for Generator Synchronization (GPC).
- Cyber Security and IT:
  - Configuration for Windows Servers OS.

- WSUS and Active Directory.
- GPOs configuration and Troubleshooting.
- Scripting and Patch files.