

Holds a B. Sc. in Electrical Power & Machines Engineering and M. Sc. in High Voltage Engineering and Protection Systems. Has over 12 years hands-on experience working as Electrical Engineer at Sidi Krir Combined Cycle Power Plant. Has full knowledge of drawings and electrical wiring of distribution, control systems and familiar with IEC, ANSI or IEEE and Egyptian standards.

PERSONAL DATA

Nationality : Egyptian
Birth Date : 14/09/1987
Gender : Male
Marital Status : Married
Residence : Alexandria

EDUCATION

: B. Sc. in Electrical Power & Machines Engineering, Alexandria University, 2009
: M. Sc. in High Voltage Engineering and Protection Systems, Cairo University, 2019

LANGUAGES

Arabic : Native Language
English : Excellent
German : Good

COMPUTER SKILLS

: Windows, MS Office (Word, Excel, Access, Power Point), Internet
: ETAP program
: OMICRON Test Universe
: SIEMENS DIGSI
: Schneider Sepam SFT
: Schneider Electric Easergy Studio
: Beckwith IPScm
: Oracle Primavera P6
: MS Project
: AutoCAD Electrical
: Dialux (lighting design)
: Revit MEP
: SAP program
: PSCAD and MATLAB Simulink

- : SIEMENS SIMATIC S7
- : Zelio (PLC simulation)
- : Basic and C Languages for PIC Microcontroller programming

TRAINING COURSES AND CERTIFICATIONS

- : OMICRON Secondary Injection Tester CMC356 Training Course by (NTC) Network Training Center at the Egyptian Electricity Transmission Company (EETC).
- : SIEMENS Protection Training Course on SIPROTEC devices (7UT613 - 7UT635 - 7SJ602 - 7SJ611 - 7VK61 - 7SS52 - DIGSI4) at Sidi Krir Power Station.
- : SIEMENS Training course on GIS Switchgear Type 8DQ1-1 500KV.
- : Schneider Electric Training Course for MV switchgears (type RoNex), MV circuit breakers (type LF), LV switchgears (type Block Set), LV circuit breakers, Direct On Line starters and protection devices configuration, characteristics, protection function, measurement and metering reading and routine tests.
- : Electricity Distribution Phase (1), (2) Course by Schneider Electric (MV, LV Distribution).
- : Generator and Transformer Protection Training Courses by Abu Qir Power Plant Training Center at West Delta Electricity Production Company (WDEPC).
- : Project Management Professional 6th Edition Preparation Course at New Horizons.
- : Oracle Primavera P6 Training Course at Egyptian Engineers Syndicate.
- : Project Management with Microsoft Project Training Course by (WDEPC) Abu Qir Power Plant Training Center.
- : AutoCAD Electrical 2013 Training Course by (WDEPC) Abu Qir Power Plant Training Center.
- : Revit Electrical, Shop Drawing, Technical Office and Light Current Systems Training Courses (EGYCET).
- : Operations and Instructions of the Egyptian Unified Power Grid by (WDEPC) Abu Qir Power Plant Training Center.
- : Brugg training course for XLPE 500KV cable, Accessories, Cable Laying, Jointing for outdoor and SF6 terminations.
- : AREVA Training Courses on Transformers and SF6 Generator Circuit Breaker at Sidi Krir Power Station.
- : Gutor Training course on Uninterruptable Power Supply (UPS), DC and Inverter Systems Operation and Maintenance at Sidi Krir Power Plant.
- : Steam turbine Generator Operations and Maintenance training course by Ansaldo Energia Co.
- : Operation and Maintenance of Gas Turbine and Auxiliaries training course by Mitsubishi Heavy Industry MHI.
- : Training Program of pumps by EBARA.
- : Siemens PLC S7 300 PLC, Pneumatic and Electro-Pneumatic Courses by DON BOSCO.
- : DCS CENTUM CS3000 R3 Course by YOKOGAWA.
- : Master ICDL in the International British Institute (IBI).
- : TOEFL Local Certificate from Alexandria University Community Development Center.

- : Two Levels (Start Deutsch 1) in GOETHE Institute.
- : Four Levels (English) in the International British Institute (IBI).
- : Summer trainings at:
 - West Delta Electricity Production (WDEPC), Abu Qir Power Plant (2007).
 - Ameriya Petroleum Refinery Company (A.P.R.C) (2008).

CHRONOLOGICAL EXPERIENCE RECORD

- Dates** : From Jul. 2011 till now
- Employer** : West Delta Electricity Production Company (WDEPC)
- Project** : Sidi Krir Combined Cycle 750MW Power Plant
- Job title** : Electrical Engineer
- Job Description** :
- Working on protection systems, testing, operation and maintenance works of EHV/HV substations, generators, transformers, DC systems, inverters (UPS) and electrical auxiliaries in Sidi Krir 750MW Combined Cycle Power plant units as:
 - SIEMENS 8DQ1 GIS 500KV substation with protection devices (SIEMENS SIPROTEC 7UT61x, 7UT635, 7VK61 and 7SS52x) and (6MD6x) Bay Controller, (MICOM P442, P437 and P126), ALSTOM LFAA102 auto reclosure and SIEMENS auxiliary relays.
 - Mitsubishi M701F 250MW Gas Turbine, Generator 350 MVA/ 21KV hydrogen cooled with static excitation system and BECKWITH protection devices (M3425-A) for generator, (M3310) for excitation transformer and MELCO auxiliary relays.
 - Ansaldo Energia 270MW Steam Turbine, Generator 340 MVA/ 15.75KV hydrogen cooled with static excitation system with protection devices MICOM (P141 and P345), AREVA Rotor Earth Fault Protection (MX3IPG2A), AREVA Automatic Synchronizer Relay (MX3EG1A), AREVA Synch. Check Relay (MX3EG2B) and AREVA auxiliary relays (MVAJ101/205 and MVAX12).
 - Main transformers 340 MVA 21/15.25/500KV oil immersed, off load tap changer by AREVA with (SIEMENS SIPROTEC 7SJ602, 7UT6x and 7SJ61x) protection devices and SIEMENS auxiliary relays.
 - Auxiliary transformers 32 MVA 21/ 6.3KV oil immersed, on load tap changer by AREVA with (SIEMENS SIPROTEC 7SJ602, 7UT6x and 7SJ61x) protection devices and SIEMENS auxiliary relays.
 - Schneider MV Switchgears (6.3KV) SF6 type circuit breakers with (Sepam S20, 42, 87) protection relays.
 - Schneider 400 v Load Centers with 6.6/0.4KV dry type transformers with Micrologic protection relays.
 - Motor Control Centers (MCC) with MLP protection relays.
 - Mitsubishi Emergency Diesel Engine-Generator set.
 - Gutor 125 V Battery Chargers and DC system.
 - Gutor Inverters (UPS).
 - HVAC systems.
 - Overhead cranes.
 - Low Voltage Variable Speed Drives (VSDs).
 - 6.6KV, 400 v and DC Electric motors.
 - Engineering Working Level on SAP Program.
 - Participating and Witnessing all the erection, installation, commissioning,

testing, energization and start-up activities in the Overhaul of Upgrade and Reliability Enhancement of Mitsubishi M701F 250MW Gas Turbine Unit no. 1 including:

- Inspection and testing gas turbine generator stator with the following scope:
 - ❖ EI-CID test.
 - ❖ Measurement of insulation resistance and polarization index (PI).
 - ❖ Partial discharge and Tan δ .
 - ❖ Measurement of winding resistance.
- Inspection and testing gas turbine generator rotor with the following scope:
 - ❖ Borescope Inspection.
 - ❖ Measurement of insulation resistance.
 - ❖ Pole balance test.
 - ❖ Measurement of winding resistance.
- Partial upgrade of generator AVR with the following tests:
 - ❖ Static tests.
 - ❖ Dynamic tests.
 - ❖ TCA cooler fan inverter panel installation, testing and commissioning.

- Dates** : From Apr. 2019 till now (part time)
- Employer** : Consulting Engineering Services (CES) Office
- Projects** :
 - Sidi Hinish Tourist Village, North Coast
 - El-Montaza Gardens Renewal and Development, Alexandria
 - 3rd July Naval Base, Marsa Matrouh
 - Carpentry and Furniture Factory, Merghem, Alexandria
 - Faculty of Pharmacy, Arab Academy of Science, Alexandria
- Job title** : Senior Electrical Design & Site Engineer
- Job Description** :
 - Design, Supervision and testing of all low and Medium Voltage installation works, which were being carried out as per the design drawings and BOQ specifications according to the standard codes for the following equipments:
 - Transformers and Diesel Generators.
 - MV, LV switchgears, Distribution Panel Boards (RMU, MDB, SMDB and MCC), ATS and UPS Panels.
 - MV, LV Cables.
 - HVAC and Lifts Systems.
 - Earthing and Lightning Protection Systems.
 - Low Current Systems including Fire Alarm system, Security (CCTV and Access control), Telephone Network, Audio & TV systems and Computer networks (Fiber Optics, cables).
 - Internal, External Lighting, Power receptacles, Cable Routing, cable trays, Panel boards.
 - Supervising and monitoring the installation works on site as per the approved Drawings.
 - Review and approval of shop drawings & material submittals submitted by Contractor.
 - Coordinate with Mechanical, Civil, Architect Engineers, Discuss technical aspects of electrical system with Contractor towards successful completion of project.

- Coordinating with client, consultant and contractor.

Dates : From Jul. 2009 till Jul. 2011

Employer : West Delta Electricity Production Company (WDEPC)

Project : Sidi Krir Combined Cycle 750MW Power Plant

Job title : Electrical Construction, Testing, Commissioning & Start-up Engineer

Job Description : Participating and Witnessing all the erection, installation, commissioning, testing, energization and Start-up activities for:

- SIEMENS 8DQ1 GIS 500KV substation and 500KV Cables (BRUGG).
- Two step-up transformer (AREVA) 500/21KV - 300MVA.
- One step-up transformer (AREVA) 500/15.75KV - 340MVA.
- Two auxiliary transformer (AREVA) 21/6.3/6.3KV - 32MVA.
- Eight step-down Dry Transformer (Schneider Square D) 6300/400 V-1000/1333 KVA.
- Generator Circuit Breaker (AREVA GCB) and ISO Phase Bus (ALSTOM IPB).
- MV Switchgears 6.3KV (Schneider) and LV Switchgears 400 v (Schneider).
- Steam turbine Generator (Ansaldo 340 MVA - 15.7KV) and Auxiliaries system.
- Interface signals between Protection devices, Transformers, Switchgear, Switchyard, Generator circuit breaker and Generator.
- Witnessing all the commissioning and testing activities for protection devices: Schneider Sepam S20, 42, 87.
- SIEMENS SIPROTEC 7SJ61x, 7UT61x, 7UT635, 7SJ602, 7VK61 and 7SS52x.
- MICOM devices P442, P437, P126, P345 and P141.
- AREVA Rotor Earth Fault Protection (MX3IPG2A), AREVA Automatic Synchronizer Relay (MX3EG1A), AREVA Synch. Check Relay (MX3EG2B).
- ALSTOM LFAA102 auto reclosure.
- Work on primary injection OMICRON CPC 100, Megger ODEN AT.
- Work on secondary injection OMICRON CMC 356.