

Holds B. Sc. in Electrical Power & Machines Engineering and M. Sc. in Energy Engineering. Has over 8 years hands-on experience working as E&I Engineer.

PERSONAL DATA

Nationality : Egyptian
Birth Date : 11/11/1990
Gender : Male
Marital Status : Married
Residence : Suez

EDUCATION

: B. Sc. in Electrical Power & Machines Engineering, Cairo University, 2012
: M. Sc. in Energy Engineering, Suez University, 2018

LANGUAGES

Arabic : Native Language
English : Good

COMPUTER SKILLS

: Windows, MS Office, Internet
: AUTOCAD, Dialux, psim, Proteus, Visual Basic, MATLAB, mikroC
: Active home program
: SAM, Helioscope, Meteonorm, Ansys
: Maximo, Oracle iProcurement
: SIMATIC S7

TRAINING COURSES AND CERTIFICATIONS

: PLC Siemens (S7 - 200), Cairo University, Giza (Nov. 2011).
: SCADA (IFIX), Cairo University, Giza (Dec. 2011).
: Power & Control circuits in electric machines, Ministry of Industry, Cairo (Feb. 2012).
: Electric Machines (AC & DC), Ministry of Industry, Cairo (Apr. 2012).
: Maintenance of overhead & mobile cranes, Egyptian Center for industrial safety (May 2014).
: Solar Energy, Delft University (from Sep. till Dec. 2015).
: Electrical Network Protection Diploma, Schneider Electric (Feb. 2017).

- : IELTS Preparation, British Council (Feb. 2018).
- : Electrical Network Protection Diploma, Schneider Electric (Mar. 2018).
- : Principles of MV network protection, SIEMENS (May 2018).
- : Road Safety driving, Egyptian Road Safety Training Center (Dec. 2018).
- : Allen Bradley PLC (Studio 5000 Logix Designer Level 2: ControlLogix), KMT for industrial services (Jan. 2019).
- : Business Writing Skills & Netiquette, Top Business (Nov. 2019).
- : English (TOEFL).
- : ICDL 2013.
- : Training at Lafarge Cement Egypt Co., A member of LafargeHolcim, Sokhna, Suez, Egypt (from Nov. 2015 till Jan. 2016):
 - Headstart Training program in different areas inside the plant (Quarry, Crushers, Raw materials preparation and storage, Grinding mills and Separators, Pyro (Silo, Preheater, Kiln, Cooler, conditioning towers, filters and conveying systems), Operations and Control, Mechanical department, electrical and instrumentation department, main substation and electrical rooms, Utilities (water treatment, compressor rooms, mechanical and electrical workshops, fuels and alternative fuels),Clinker storage and Cement Packing).
 - Safety training:
 - Energy Isolation.
 - Working at heights.
 - Risk assessment.
 - Soft Skills training:
 - Time management.
 - Change management.
 - Communication skills.
 - Design thinking.
 - Problem Solving & Decision making.
- : Summer training at Al Ezz Flat Steel Co., Sokhna, Suez, Egypt (Jul. 2011): Training program in Electrical Department (Electrical Maintenance Sections & Automation) for 5 hrs. daily.
- : Summer training at East Delta Electricity Production Co., Ataka Power Station, Ataka, Suez, Egypt (Aug. 2010):
 - Training on the components of the power station.
 - Training on the 220KV power grids.
 - Training on the different types of generators and transformers, instrumentation and protection devices.

CHRONOLOGICAL EXPERIENCE RECORD

- Dates** : From Jan. 2016 till now
- Employer** : Air Liquide Sokhna, Suez, Egypt
- Job title** : Electrical & Instrumentation Maintenance and Operations Engineer
- Job Description** :
 - Working in TAR for ASU plant (inside Ezz steel factory).
 - Working in commissioning & start-up for VSA plant (inside Jushi factory).
 - Attended AirLiquide training in safety, instrumentation and process control.
 - Attended AirLiquide training in Maximo.
 - Follow up E-learning trainings as per AirLiquide standard.

- Attended VSA training in operation and Modsoft for Modicon PLC.
- Dealing with:
 - P&ID, process flow diagrams, control loops, transmitters (temperature, pressure, pressure difference, flow, level, vibration, speed), valves, control valves, positioners, pneumatic control, motorized and safety valves, rupture disk, pressure regulators, different gas analyzers, water trap, Hart communicator, PID controllers, surge controller, Fluke devices (thermo gun, thermo graph, current injector, temperature calibrator, pressure calibrator, vibration meter), DCS ABB & freelance software, Modicon PLC, HIMA PLC, PLC S7 - 300, WIN CC flexible, HMI display.
 - MV Siemens GIS 30KV, Siemens MCC, MV PF correction, MV ABB motors, MV ABB switchgear MV ABB contactors, protection relays, Schneider LV switchgear and bus coupler, simovert Siemens drives, ABB drives, Altistart soft starter, UPS, Rectifiers (for Hydrogen cells), Lightning surge arrestor, devices (megger, partial discharge, HIPot, FREJA, earth tester).
 - Water chillers, cooling towers, multistage Atlas Copco centrifugal compressor (IGV, surge controllers), SIAD Piston Oxygen compressor, Vacuum pump, submersible pumps, Air fans, shell & tube heat exchangers, pumps, cryogenic pumps, pressure vessels, cryogenic tanks & equipment, ambient air & water vaporizers, high speed air turbines, mole sieve skid, valves skid, heaters, filters.
- Leading electrical commissioning for new Sigma ASU plant including (Casagrande MV & LV switchgear, Dry transformers, ATS, MV 7.4MW Hyundai motor water cooled, MV Rockwell Allen Bradley VFD, 600 KW regeneration heater).
- Attended product awareness meeting and factory tour in ROCKWELL AUTOMATION in Poland from 8th to 12th of April 2018 (MV & LV Drives, Soft starters, MCCs, ...).

Dates : From Jun. 2013 till Nov. 2015

Employer : Suez Shipyard Company, A Member of Suez Canal Authority, Suez, Egypt

Job Description :

- Working in ships maintenance.
- Working in maintenance and winding of motors.
- Working in electricity distribution inside ships and buildings.
- Working in maintenance of electrical cranes in syncrolift and docks.
- Working in operating, sinking and floating of floating dock.
- Working in Ships switchboard, lights, Cranes (overhead, portal, gantry, mobile), compressors, motors, star delta starter, AC drives and dynamic braking units (Fuji electric), diesel generators, transformers, power factor correction, welding machines, heat treat furnace control (pt100), pumps, fans, ups, frequency converter, cathodic protection, balancing machines, Truck scale & load cells, control (contactors, relays, overloads, ...), IP degree.

Technical Skills:

- Very good dealing with hardware components, Wiring & Control panels.
- Good knowledge about Siemens PLCs SIMATIC S7 200, S7 300.
- Good knowledge about WinCC.
- Dealing with Charts (P&ID, PFD & location layouts).

- Good knowledge about drives & soft starters.
- Very good dealing with MVSG.
- Good knowledge about MVSG protection & coordination study.

Published Paper:

Me (Author), 2018, Rigid Airship Energy Systems. Renewable versus traditional energy, Munich, GRIN Verlag, ISBN: 9783668927773, <https://www.grin.com/document/465515>.