

**100122-ELE-134CDEHMT-E-2016**  
**Assistant Chief Engineer (Maintenance Engineer)**

Holds a B. Sc. in Electrical Power & Machines Engineering and has over 3 years hands-on experience with skills in Substations protection, testing, commissioning, secondary design, Scada, HMI, PLC, classic control, Power Networks, Power transmission and distribution, solar systems design, java, Linux, MS SQL Server and MS Access.

## PERSONAL DATA

Nationality : Egyptian  
Birth Date : 09/03/1993  
Gender : Male  
Marital Status : Single  
Residence : Alexandria

## EDUCATION

: B. Sc. in Electrical Power & Machines Engineering, Alexandria University, 2016  
: Secondary Education: Middle-East Language School, 2011

## LANGUAGES

Arabic : Native Language  
English : Very Good  
French : Good

## COMPUTER SKILLS

: Windows, MS Office, Internet  
: Automation: TIA Portal v13 Siemens AG, SIMATIC Manager v5.5, Logix ProSim II Allen-Bradley, WinCC flexible 2008 SP 2 SP 3, WinCC v7.4, TIA WinCC advanced v13, TIA WinCC Professional, Zelio Soft 2  
: Electrical Design: AutoCAD, Proteus  
: Lighting intensity calculations: Dialux  
: Power distribution calculations: ETAP, Ecodial  
: Simulators: EKTS, CADe SIMU, Simulink (MathWorks)  
: Programming languages: Java, C, HTML, Matlab  
: Database: MS Access, SQL Server  
: OS: Linux Red Hat, VM Ware work station

# TRAINING COURSES AND CERTIFICATIONS

- : Taking training in Substations Protection, Testing, Commissioning & Secondary Design, Location: Cairo, Instructor: Nasr Abo-Bakr - Senior Application Design Engineer at Schneider Electric (currently).
- : Industrial Automation, Egyptian Co. for Engineering Training (120 Hr.) (from Nov. 2018 till Jan. 2019):
  - Electrical Basics and Classic Control (DC and AC (I.M) Controlling, Studying, Protection, Maintenance and Industrial Safety):
    - Electrical Basics.
    - Types of Control System.
    - Classic control components.
    - Motor Name Plate.
    - Types of AC Motors.
    - Different types of Control Cct.
    - Types of Starter for I.M.
    - Testing of Induction Motor.
    - Typical M Failure & Protection.
  - PLC 1 Basics Siemens SIMATIC Step 7 1200.
  - PLC 2 Advanced Siemens SIMATIC Step 7 300 and S7 400:
    - S7 System Family.
    - SIMATIC Manager.
    - Hardware Configuration.
    - Block Architecture.
    - Symbols.
    - Binary Operations.
    - Digital operation.
    - Analog programming.
    - OBs & FC & FB & DB.
    - Introduction to profibus DP.
    - Troubleshooting.
  - HMI and Scada System:
    - Connection Configuration.
    - Engineering System.
    - Creating Tags.
    - Creating Screens.
    - Creating Alarm System.
    - Global Events.
    - User administration.
    - Recipes.
    - Transfer Project
    - Integration with S7 project.
- : PLC 1, Jelecom Institute.
- : Substations protection, testing, commissioning, secondary design (30 h) (ETA Academy) (Jan. 2018):
  - CT: all topics related to it, e.g.: Omicron CT analyzer measurement at freely accessible CT, at a delta winding transformer, at a bushing-type CT, at a GIS (SF6) switch gear and burden test to prepare SAT or FAT.

- Make tests e.g.: burden, winding resistance, excitation curve, A.L.F., ratio and polarity tests.
  - VT: all topics related to it.
  - Switchgear: all topics related to it.
  - C.B.: all topics related to it.
- : Electrical Power Distribution, Udemy (5.21 h) (Aug./Sep. 2019).
- : Solar System Design, Sunny World Training Company (48 h): off grid, on grid, solar heater, solar light, solar pump.
- : Natural gas processing certificate, The Society of Petroleum Engineers Alexandria University Student Chapter SPE ASC (Sep. 2015).
- : MS Office 2010 Package certificate, Udemy Platform (Feb. 2018).
- : New Horizons Computer Learning Centers (Jul./Aug. 2018):
- Red Hat System Administration I.
  - Java level one.
- : MS SQL Server, Arab Academy for Science, Technology and Maritime Transportation (48 Hr.), Udemy Platform (May 2018).
- : Microsoft Access (18 hours), New Horizons Computer Learning Centers (Mar. 2018).
- : Microchip microcontrollers basic applications course, Jelecom (Aug./Sep. 2013).
- : C programming language, Institute of Electrical and Electronics Engineers Alex SB (Jan. 2013).
- : Train of Trainers Diploma, Master Technology Center.
- : Internship at Arab Petroleum Pipelines Company - SUMED (Jul./Aug. 2015):
- Title: Electrical Power Engineer Trainee.
  - Mission: Maintenance and controlling of plant.
  - Industrial Safety and Tank Cathodic Protection.
  - Studied and analyzed of electrical power system 66/11KV of the company and Automation (PLC) and SCADA systems.
- : Internship at Alexandria Petroleum Company - downstream petroleum sector (Jul. 2015):
- Title: Electrical Power Engineer Trainee.
  - Mission: Maintenance and controlling of plant.
  - Good knowledge of refining of oil and products of oil.
- : Internship at Alexandria Fertilizers Company (Alex. Fert.) (Jul./Aug. 2014):
- Title: Electrical Power Engineer Trainee under supervision of Eng. Mohamed Abdel-Aziz.
  - Mission: Maintenance and controlling of plant.
- : Internship at West Delta Electricity Production Company (WDEPC) (Jul. 2014):
- Location: New Abu Qir Steam Power Plant (total capacity = 2x650MW).
  - Title: Electrical Power Engineer Trainee.
  - Mission: Maintenance and controlling of power plant.
  - Studying of steam cycle (Rankine Cycle) of the thermal power station.
  - Studying and analyzing of generators, turbines (an enclosed turbine building), the boiler (an open boiler building), step up power transformers 22/500KV, 500KV Gas insulated switchyard, transmission towers and transmission cables.
- : Internship at Siemens (Jan./Feb. 2014):
- Mission: Construction of substation.
  - Location: Samasta, Beni Suef.

- Title: Electrical Commissioning Trainee under supervision of Eng. Mahmoud Mohamed Ali.
  - Explanation of the step down power transformer 66/11 and substation components for example but not limited to: bus bars (bus ways), plug in, tap off, cable trays, ladders and trunking, high voltage cables, surge arrester, lightning arrester, CT, VT, capacitor banks, firefighting, and lighting systems and understanding of electrical SLD.
  - Installing of MV substation conventional type e.g. disconnect switches, circuit breaker (switchgears), relays, interlock and the control room.
- : Studied German language (Languages Armed Forces Institute).
- : English Conversation (Arab Academy for Science, Technology and Maritime Transportation).
- : English intermediate, Arab Academy for Science, Technology and Maritime Transportation (Jul./Aug. 2012).
- : ICDL
- : Visited two companies under supervision of IEEE student branch team: TOSHIBA Manufacturing Company at Qwesna and ELSEWEDY Electric at 10th of Ramadan City.
- : Engineering Seminars - Attended Events under supervision of IEEE student branch: Electric week - Leading Your Career L.Y. Society - ITW.

## CHRONOLOGICAL EXPERIENCE RECORD

- Dates** : From Oct. 2019 till now
- Employer** : Red Sea Company
- Project** : Marsa Alam, Red Sea
- Job title** : Assistant Chief Engineer (Maintenance Engineer)
- Job Description** :
- Installation and maintenance of the architectural, mechanical, plumbing and electrical systems.
  - Plan, coordinate and execute renovation projects.
  - Ensure that building structures and all mechanical and electrical systems are in good and safe conditions.
  - Ensure that engineering team uses equipment safely and efficiently to avoid accidents.
  - Communicate overall condition of engineering systems to all Managers on regular basis meeting.
  - Assist engineering staff to process customer requests promptly and accurately.
  - Recommend cost-effective solutions to maintain building structures and related systems.
  - Order and stock the maintenance supplies to avoid any shortages.
  - Achievements:
    - Making AutoCAD drawings for the site of villages.
    - Installing seven 3 Phase energy meters (iskraemeco).
- Dates** : From Jan. 2019 till Apr. 2019
- Employer** : Arabian Packaging Co. L.L.C. (Saif Al Ghurair Group)
- Project** : Jebal Ali, Industrial Area 2, Dubai, U.A.E
- Job title** : Electrical Maintenance Engineer

- Job Description** :
- Perform preventive & corrective maintenance for efi / escada BW Papersystems MarquipWardUnited and BHS corrugators production lines, converting-printing and on wrapping machines
  - Check the operation of the electric elements directional control valves, proportional valves, pressure switches, level indicators, conditioning pumps, main pumps, etc.
  - Check operation of inductive, capacitive, photo electric sensors, encoders and load cells.
  - Installation and changing parameters of different types of drives such as Lenze, Kinetix 5700, Baumüller, Sinamics, Simotion family and SEW euro drives
  - Troubleshoot faults on factory PLCs: Siemens S7 200, 300, 400 and S5, Mitsubishi, Allen-Bradley AENT Series-B, Logix5583E, ...etc.
  - Follow up electrical utilities, boilers, air compressors, chillers and pumps.
  - Installation of electrical equipment inside the factory.
  - Achievements:
    - Conduct preventive maintenance (PMI) for BOBST Master Cut, 618B, 618A, Ovation 7p, 924, BGM, Old Gupfort, BOBST SPO, Ovation 8p, RDC, New BGM, Master Folder converting & printing machines.
    - Conduct (PMI) on BHS and efi / Escada corrugators main production lines.
    - Trouble shoot electrical/mechanical faults in die cut BOBSET machine, converting & printing 618 A and Robo pack.
    - Changed load cell part on roll in Escada corrugator line.
    - Fix the titled belt in Modular facer #1 unit by fixing the proportional valve in BHS corrugator line.
    - Design a ladder logic for automatic gate for parking area and apply it on Zelio soft 2 Schneider soft ware.

**Dates** : From Sep. 2018 till Dec. 2018

**Employer** : American Power Technology Company (APT) for electrical contracting, maintenance, commissioning and testing, Alexandria

**Job title** : Technical Office Electrical Engineer

- Job Description** :
- Analyzing tender's BOQ, Specs., vendor list, drawings, other documents came from consultant office.
  - Prepare commercial offers and technical data sheets for the electrical power part of project e.g. MV RMU and Switchgears, RMU, bus bars, plugin, tap off, disconnect switches, C.Bs, power transformers, standby generators, UPS, ATS, MDPB, SMDPB, MCCs, outlets, wiring devices, MV, LV and special cables, cable trays, ladders, trunkings, Lighting fixtures, LCP, energy meters, lightening and earthing systems.
  - Prepare commercial offers and technical data sheets for light current part of project e.g. public address and sound, fire alarm, CCTV or satellite surveillance security system, communication, MATV, access control, car parking, data and telephone, Ethernet and optical networks, GPON Networks, digital signage and BM systems.
  - Calculate average wires, conduits, additional materials and workmanships costs for project.
  - Prepare cost estimation for BOQ to apply as tender.

- Support sites for shop drawings.
- Achievements:
  - Accomplish IBM Smart Village, Cairo.
  - Zayed City Edge Project, Al-Shaikh Zayed, 6th of October, Consultant: Al Gabaly Architects.
  - B 04, Stanly region, Porto October, 6th of October, Consultant: Infra Group, Owner: Amer Group.

**Dates** : From Oct. 2016 till Dec. 2017

**Job Description** : Served honorably in the EG Army Command for one year at operations office.

**Field of experience** :

- Trouble shooting electrical malfunctions in control and power panels in factory.
- Knowledge of industrial Automation project levels.
- HMI programming using WinCC flexible.
- SCADA programming using WinCC.
- PLC programming (Siemens) by Statement List, Ladder Logic using TIA, simatic manager, LogixPro.
- Coding by java, linux, SQL server, MS Access.
- AutoCAD draftsman professional.
- Design and make sizing of Main transformer, main C.B., M.D.B. (medium voltage), S.M.D.B. and final (low voltage) panels by calculating load schedule to get Maximum Demand Load.
- Design of electrical spaces, lighting fixtures and sockets according to IEC and NEC standards.
- Make cost estimation for electrical projects.
- Design of solar systems (off-grid, on grid, solar heater, solar light, solar pump).