

**106902-ELE-14CMSTyz-E-2009**  
**Electrical Commissioning Engineer**

Holds a B. Sc. in Electrical Engineering and has over 11 years hands-on experience working in Electrical, Instrumentation Construction & Commissioning and Maintenance.

## PERSONAL DATA

Nationality : Egyptian  
Birth Year : 1987  
Gender : Male  
Residence : Alexandria

## EDUCATION

: B. Sc. in Electrical Engineering, Mansoura University, 2009

## LANGUAGES

Arabic : Native Language  
English : Very Good

## COMPUTER SKILLS

: Windows, MS Office, Internet  
: AutoCAD  
: Automation Programs (SIEMENS PLC, SCADA (Wincc & Wonderware), Siemens Starter, .....)

## TRAINING COURSES AND CERTIFICATIONS

: Tap Changer Course, MR Company, Reinhausen, Germany: Practical Training of Tap Changer of Power Transformers.  
: SIEMENS Automation Course: Practical Training (PLC, HMI, Starters) by SIEMENS VAI Programmers in the site.  
: Safety Courses 2018 by Bechtel (Confined Space, Fall Protection, .....).  
: BP Authorization Courses by BP Commissioning Performance Authority PA:

- Isolation, De-isolation Authority, .....).
- EX Inspection Course.

## CHRONOLOGICAL EXPERIENCE RECORD

**Dates** : From Oct. 2018 till May 2020  
**Employer** : BP  
**Project** : WND Gas Development Project

**Job title** : Electrical Commissioning Engineer

**Job Description** :

- Inspection the completions in construction phase, Issuing the punch list items for different main/sub systems through field walk downs with the contractor (BECHTEL), Confirmation readiness of systems to turn over from construction to commissioning phase.
- Testing and Commissioning of switchboards (Protection systems, Function tests, primary & secondary injections, Contact resistance, insulation resistance, Hipot, ...).
- Commissioning of Gas turbine generators GTG, Emergency Diesel Generators EDG and Power transformers, ....
- Testing protection, Function, PMS interface, ICSS interface of outgoing Feeders (pumps, Fans, different loads, .....).
- Pre-commissioning and running of different motors, coordination with mechanical, process.
- Commissioning of starters, VFD Panels, UPS Systems, DC Chargers, ....
- Testing of PMS (Power Management System) is advanced control system to (management, Monitoring, Communication, ....) of power system (Gas Turbine Generators GTG, Switchboards, Emergency Diesel Generators EDG, transformers, .....).
- Testing the interface between YOKOGAWA ICSS (PAS, SIS, FGS) and different electrical systems with I&C (commands, Status, Process variables, Setpoints, .....).
- Thyristor Controlled Heaters Control Panels, Generator Control Panels.
- Commissioning of Distribution Boards DB, Lighting and Small Power.

**Dates** : From Sep. 2017 till Oct. 2018

**Employer** : CGE / Bonatti

**Project** : Onshore GFR Gas Development Project

**Job title** : E&I Superintendent

**Job Description** :

- Substation of 4 GTG (Gas Turbine Generator) x 5.5MW & 6.6KV, 4 transformers of 4MVA, 6.6/0.72KV, 2 transformers of 1 MVA, 6.6/0.42KV, 6.6KV Switchgear, LV Switchboards, MCC Panels, Bus ducts between transformers & LV Switchboards, PMS (Power Management Systems).
- Control building, CCR, YOKOGAWA DCS System including marshalling cabinets, System cabinets for PAS, SIS, FG systems.
- Field Junction boxes (digital, analog, fieldbus), DB, LCP online /Remote mounted Instrumentation, FG devices, SS Tubing, fitting Swagelok.
- Termination and glanding of Fire & non fire resistant power and control cables, Fieldbus, IS, FO, Ethernet cables in indoor electrical and control buildings in outdoor boxes, motors, skids, Instrumentation, Lighting in field in areas like: Gas Treatment Area Train 1 & 2, BUTU/HPU METHANOL STORAGE AREA, TRUNKLINE PIG RECEIVING AREA, HP/LP FLARE AREA.

**Dates** : From May 2016 till Aug. 2017

**Employer** : Consortium ORASCOM Construction and GENERAL ELECTRIC (GE)

**Project** : NEW West Damietta Combined Cycle Power Plant (CCPP) 750MW

**Job title** : Lead Electrical Engineer (E&I)

- Job Description** :
- 4 x Gas Turbine Generator of 125MW (Simple Cycle), Fast track.
  - 1 Steam Turbine Generator of 250MW, Power transformer, GCB, Auxiliary transformer, Bus Duct, Utilities.
  - 4 HRSG (Heat Recovery Steam Generator), LP Economizer Pumps, LP Economizer & Super heater, HP Economizer & Super heater, LP & HP Drums, Feed Water Pumps, Blow down Tank, Sump Pumps, Phosphate Injection Skids, ....., Air Craft, HRSG Elevator, Lighting, .....
  - Steam Duct ACC (Air Cooled Condenser), Condensate Pumps, Vacuum Pumps Skids, .....
  - CEMS Analyzer for Stack (Simple Cycle Stack and HRSG Stack), SWAN Analyzer for LP, HP and blow down Steam in HRSG Area.
  - Installation of DCS, GE, MARK VIe Systems, MCC, MV Switchgears, Protection Panels for transformer and generator, Battery Chargers, LV Switchboards, CCR (Customer Control Room), UPS, Backup Generators, .....
  - Executing the electrical Construction, instrumentation, Clear punch list items, Handing over to GE.
  - Supervision the subcontractors in some areas and receive the completed tasks according to details, arrange meetings.
  - Testing and Commissioning of instruments, Pneumatic & Motorized Valves, transformers, LV Switch boards, MV Switchgears, LV & MV Motors, ...

**Dates** : From Mar. 2014 till Apr. 2016

**Employer** : ALASAAD FOR BILLETS Factory (Khartoum – Sudan)

**Job title** : Site Electrical Manager (E&I)

- Job Description** :
- Electrical Construction & Commissioning and Maintenance.
  - EAF 50 ton of 32 MVA transformer TES (33/0.6KV, on load tap changer) includes 33KV Switchgear, Isolator / Earth Switch, RC Filter, surgearrestors (phase to phase and phase to ground) and high secondary current up to 40 KA applied for melting scrap.
  - LF (6.4MVA, TES TR), CCM Plant 4 Strand.
  - Utilities: Overhead Cranes 15, 60 ton & compressed air Plant & 3 Hydraulic systems (tanks, Oil Pumps, heaters, proportional valves, ....).
  - Fume Treatment Plant: Project for suction of hot gases and filtering dust (8 Bag filter with cleaning system, Big Fans, Dampers, Stack, .....
  - Gas Plant: Air Separation Plant to produce only: (Oxygen & Nitrogen).
  - Liquid Petroleum Gas Plant (LPG): includes liquid tanks, pumps, heating system (burners), Water coolers, ..... to convert Liquid to gas needed.
  - STATCOM of range 0 to 16 MVAR on 33KV bus (Fixed 8 MVAR of capacitor banks and controlled statcom + 8 MVAR.
  - Main 33KV Switchgear Plant: 40MVA, 33KV, 2 lines each of 20 MVA and another 20KV switchgear (Italian Standard) from transformer 33/20KV TR feeding 5 power transformers 20/0.4KV for too many LV Power centers, MCC, .....
  - Water Treatment Plant (WTP): includes Water pumps with driving soft starters, Make up Water Basin, Soft Water Basin, Water tanks, Cooling towers, Sand filters, scale pit, clarifier, ...
  - Commissioning, Hot Test and Start-up of the factory.

**Dates** : From Jan. 2010 till Mar. 2014  
**Employer** : ESISCO  
**Job title** : Senior Electrical Engineer (E&I)  
**Job Description** :

- Electrical Construction, Commissioning and Maintenance..
- Electric Arc Furnace 160 ton of Transformer 140 MVA TAMINI and 24 MVA TAMINI Transformer for ladle Furnace (LF) and utilities like Water treatment plant, Dedusting Plant from Cranes 320 ton from HYUNDAI.
- SVC (STATIC VAR COMPENSATOR): controlled range 0 to 195 MVAR, on 33KV bus).
- Main 11KV Switchgear plant: 3 Lines from 3 transformer each of 50MVA, 220/11KV with 2 bus couplers, SIEMENS Type, SIMOPRIME in additional 7 downstream 11KV Plants to Battery chargers, UPS, Control Panels and HMI to supervise and control the plant.
- Main Substation 220/33/11KV: ABB, Outdoor, 320 MVA (3 transformers each of 50 MVA, Star/Delta, 220/11KV), (1 transformer 160 MVA, Star/Delta, 220/33KV), Earthing transformers for earth fault protection of Power transformers, Outdoor 220KV circuit breakers, disconnecters / grounding switches, current and voltage transformers, Surge arrestors, Indoor building which includes total protection and control system and RTU for communication with upstream power Plant.
- Air Separation Plant: Huge Project (Production of Oxygen & Nitrogen and Argon) includes in brief (Cold boxes, Very Big Air and Gas multi stages compressors (1.5 till 6.7MW) from CAMERON, Prepurifier, Evapourizers, Booster turbines, Liquid tanks, buffer tanks, ....
- Regenerative Double Shaft Lime Plant 500 Ton/day: Project includes 2 burning shafts, Limestone crushers, Long distance beltconveyors, lime stone silos, Gas and Air Burning Valve Stands, Air Blowers, Stack, different measurements in side burning shafts which have temperature goes to 900 C.

**Dates** : From Jul. 2009 till Jan. 2010  
**Employer** : INTERMAINT (Construction)  
**Job title** : Junior Site Electrical Engineer  
**Job Description** : Electrical Construction of Rolling Mill by DANIELI Company.

**Field of experience** :

- Erection and Commissioning of so many Power transformers 2.5 MVA, 3.4MVA, 4MVA, 6.4MVA, 15MVA, 24MVA, 32MVA up to 140MVA, 160 MVA), MV Switchgears (6.6, 11, 20, 33KV), LV motor control centers, High Current LV Power Distribution Centers under different voltage ranges (400, 550, 720 V).
- Testing of switchgears and setting of protection relays ABB, Schneider and Siemens, vacuum and SF6 circuit breakers, CT & VT and Busbar tests.
- Commissioning and switching power on transformers of different ratings and under voltage range 6.6KV, 11KV, 20, 33KV, 220KV and also MV Motors 1.6, 2, 6.7MW under 6.6KV & 11KV for huge multi stage compressors & Fans & ...
- Testing of different protection relays ABB (REF, REM), SIEMENS (SIPROTEC), Schneider (SEPAM), .....

- Erection and Commissioning of different Plants of indoor switchgears and outdoor substations under High Voltages HV 220KV and Medium Voltages MV (6.6, 11, 20, 33KV).
- Using P&ID (Piping & Instrumentation Diagram) and Hook ups of instruments well.
- Erection and Commissioning of 2 type of STATIC VAR COMPENSATORS (SVC) Plant like 0 - 195 MVAR (Thyristor Controlled Reactors (TCR) inductive controlled - 195 MVAR and capacitor banks + 195 MVAR (2nd Harmonic Filter (R-L-C) 40 MVAR & 3rd Harmonic Filter (L-C) 50MVAR & 4th Harmonic Filter (L-C) 40 MVAR & 5th Harmonic Filter (L- C) 65 MVAR), thyristor cooling system and control building includes indoor supervision & control and Protection system of the compensator.
- Commissioning and running of LV and MV motors for (Fans, Pumps, Compressors, Conveyers, crane hoists, crushers, ..... ) with different driving and starting methods (Speed Control drives, Soft Starters, Direct on line, ...).
- Erection and commissioning of different drives and Soft starters (ABB, SIEMENS, ALTIVAR, VACON, .....).
- Erection and Commissioning of Control Panels (PLC & SCADA Systems & remote input output panels & profibus, Ethernet and Fiber optic networks, ....).
- Installation of all types of Instruments & Analyzers, Junction boxes, Local control boxes, Field devices, .....
- Adjustment of the control pneumatic and motorized valves, dampers, instruments (Pressure, Temperature, Flow, Level, Conductivity, speed, vibration, movement, position, Stroke, Switches, angular position, ...), using Hart communicator.
- Loop check (Input / Output Tests) of different digital and analog signals.
- Installation of all cable routes system (Cable trays & conduits & glands, .....).
- Pulling all types of cables (control & LV & MV & ..... ) and testing of LV & MV Cables.
- Working by SIEMENS PLC (S7 300-400) Program and HMI (training by SIEMENS VAI Programmers).