

**102969-ELE-14MOPSTyz-E-2008**  
**Senior Electrical Testing & Commissioning Engineer**

Holds a B. Sc. in Electrical Power & Machines Engineering and has about 15 years' experience working in protection, testing and commissioning.

## PERSONAL DATA

Nationality : Egyptian  
Birth Date : 19/11/1985  
Gender : Male  
Marital Status : Married  
Residence : Currently Abu Dhabi, UAE

## EDUCATION

: B. Sc. in Electrical Power & Machines Engineering, Alexandria University, 2008

## LANGUAGES

Arabic : Native Language  
English : Very Good  
French : Basics

## COMPUTER SKILLS

: Windows, MS Office, Internet  
: AutoCAD  
: Photoshop  
: Matlab  
: Proteus and Workbench Simulation Programs  
: Computer Network Insulation  
: Assembly Language  
: Embedded C Language  
: ETAP

## TRAINING COURSES AND CERTIFICATIONS

: Work Management System (WMS) Full Package as per ADNOC HSE Requirements, TÜV Rheinland Middle East (2023).  
: Basic Offshore Safety Induction and Emergency training, ETSDC - Emirates Tech (2021).  
: Basic H2S, National Petroleum Construction Company (2021).  
: Emergency First Aider, Dubai Corporation for Ambulance Services (2021).

- : Project Management Expert, Project Management Institute (2016).
- : Fault Recorder Hathaway (Central Sector for Protection, Measurement and Testing) (2015).
- : Instrument Transformer and Power Measurement (Network Training Center) (2012).
- : Bus Bar Protection Relay 7SS522 (Siemens S.A.E) (2012).
- : Maintenance Electronic Card (El-Kureimat Training Center) (2011).
- : Operate Steam Turbine (Abu Qir Training Center) (2009).
- : Trainings at:
  - Alexandria Petroleum Maintenance Co. (PETROMENT) (2006).
  - Western Desert Operating Petroleum Co. (WEPCO) (2007).

## CHRONOLOGICAL EXPERIENCE RECORD

- Dates** : From Aug. 2021 till now
- Employer** : National Petroleum Construction Company (NPCC), Abu Dhabi – UAE
- Projects** :
  - ADNOC Off-shore Belbazem Block Field Development Encompass Three Wellhead Towers (WHT) Located at the Belbazem (WHT-BB), Umm Al Dholou (WHT-UAD), Umm Al Salsal (WHT-UAS) Locations and Processing Facilities Located at Zirku Island – UAE
  - Aramco Off-shore Electrical Distribution Platform for Zuluf Oil Field Expansion (ZULF EDP-1) - Saudi Arabia
  - Aramco Off-shore Electrical Distribution Platform for Abu Safa Oil Field Expansion (ABSF EDP) - Saudi Arabia
- Job title** : Senior Electrical Testing & Commissioning Engineer
- Job Description** : Electrical commissioning activities according to Aramco & ADNOC Standard including but not limited to:
  - MV SWGR, control panels.
  - 115KV Ring Type GIS SWGR, control panels.
  - 230KV Double Busbar GIS SWGR, control panels.
  - Protection Relays Testing for 115KV & 220KV GIS SWGR.
  - Power system Automation (PSA) including Update Signal list, CID File Configuration and simulate the Signals with PSA.
  - Prepare Testing and Commissioning Activities Documents (Test Sheets, Method Statement, Inspection Test Plan, ...etc.).
- Dates** : From Apr. 2021 till Aug. 2021
- Employer** : [EGYPTROL](http://www.egyptrol.com) – outsource for Elsewedy Power
- Project** : Layyah Combined Cycle Power Plant – Sharjah, UAE
- Job title** : Senior Electrical Testing & Commissioning Engineer
- Job Description** : Electrical commissioning activities including but not limited to:
  - Prepare Testing and Commissioning Activities Documents (Test Sheets, Method Statement, Inspection Test Plan, ...etc.).
  - MV/LV induction motors and related motor SOLO RUN test.
  - LV SWGRs, control panels.
  - Power transformers and related SOAK test.
  - CT & VT.
  - DC Systems (Battery Charger, Battery, UPS).
  - Testing LV SWGR & Transformer & Generator Protective Relays.

**Dates** : From Apr. 2019 till Feb. 2021  
**Employer** : Carlo Gavazzi Egypt (CGE) - outsource for British Petroleum (BP)  
**Project** : BP West Nile Delta Gas Development Project - Egypt  
**Job title** : Electrical Testing, Commissioning & Start-up Engineer  
**Job Description** : Follow BP PTW (Permit to Work) & COF (Control of Work) system for electrical commissioning and start-up activities including but not limited to:

- MV/LV motors and related motor SOLO RUN test.
- MV & LV SWGRs, control panels.
- Power transformers and related soak test.
- CT & VT.
- Heat Tracing Systems.
- Testing LV & MV Switchgear Protective Relays.

**Dates** : From Jan. 2019 till Apr. 2019  
**Employer** : Egyptian Maintenance Co. (EMC)  
**Project** : Operation and Maintenance Gas Turbine 50MW type SIEMENS SGT-800 at Arab Potash Company (APC) – Dead Sea, Jordan  
**Job title** : Senior Electrical Engineer  
**Job Description** :

- Checking pumps, turbine bearings, Gas line, motor and record daily notes.
- Checking operation reading for temperature, level and current of the equipments.
- Starting and shutting down the turbine.
- Checking protection relay for generator, transformer, feeder and auxiliaries.

**Dates** : From Dec. 2017 till Dec. 2018  
**Employer** : Reliability Measures for Contracting (REMCO)  
**Job Description** :

- King Saud University (KSU) - Riyadh - Saudi Arabia (Testing & Commissioning Team Leader):
  - Prepare test procedure and test sheet.
  - Issue the commissioning planning with required resources.
  - Get the test equipment calibrated.
  - Test of MV switchgear equipment (LV control circuit, Protection system, Primary equipment CT, VT and CB).
  - Put the MV switchgear into service.
- Duba Green Integrated Solar Combined Cycle Power Plant - Duba - Saudi Arabia (Senior Testing & Commissioning Engineer):
  - Testing and Commissioning MV Switchgear.
  - Testing and Commissioning LV Switchgear and MCC.
  - Testing CT and VT.
  - Testing various types of measuring devices.
  - Testing LV & MV Switchgear Protective Relays.
  - Testing Power Transformer.

**Dates** : From Jul. 2017 till Dec. 2017  
**Employer** : Det Norske Veritas, Germanischer Loyd Oil and Gas (DNV.GL) - outsource for Egyptian Refining Company (ERC)  
**Project** : Hydrocracking Facility Project - Mostorod - Cairo

**Job title** : Senior E&I QA/QC Inspector  
**Job Description** :

- Reviewing project Quality documents for electrical equipment in the project to make sure that it installed and tested as per project specification.
- Walkdown on all subsystems to finalize all equipment installation verification as per project specification and issuing punch lists for based on it.
- Witness installation and pre-commissioning / commissioning for electrical equipment & components including but not limited to:
  - MV & LV SWGRs, control panels.
  - MV/LV motors and related motor SOLO RUN test.
  - Cathodic protection System for tankage and underground pipelines.
  - MV/LV Cables c/w termination and splicing.
  - Fiber Optic (FO) cables installation and related OTDR.
  - Earthing & Lightning system.
  - Fire alarm and firefighting system.

**Dates** : From May 2016 till May 2017  
**Employer** : Egyptian Maintenance Co. - oursource for BECHTEL  
**Project** : BP West Nile Delta Gas Development Project  
**Job title** : Senior Electrical Engineer  
**Job Description** : Electrical commissioning activities including but not limited to:

- Prepare Testing and Commissioning Activities Documents (Test Sheets, Method Statement, Inspection Test Plan, ...etc.).
- Testing Motor, Transformer, Low Voltage Bus Duct, Low Voltage Switchgear, UPS and gas heater.
- Prepare Preservation and Refurbishment plan for these Equipments.
- Site Coordinator for electrical activity.

**Dates** : May/Jun. 2015  
**Employer** : Globe Power Company  
**Project** : Installation Gas Turbine Power Station (2x25MW) type TM2500, Egypt  
**Job title** : Electrical Construction Engineer  
**Job Description** :

- Supervision of establishment the earthing network.
- Supervision of installation the medium and low voltage switchgear.
- Supervision of the cable trays installation, cable laying and installation of cables ends.
- Installation and commission the battery charging system.

**Dates** : From 2011 till Jul. 2017  
**Employer** : West Delta Electricity Production Co. (WDEPC)  
**Project** : Abu Qir Thermal Power Plant  
**Job title** : Maintenance Engineer - Protection Dept.  
**Job Description** :

- Testing Generators (150MW 15KV, 300MW 22KV) Protective relays.
- Testing 11KV Gas turbine generator protective relays.
- Testing Transformers (15/220KV, 22/220KV, 220/11/6.3KV & 66/6.3KV) Protective Relays.
- Testing 11KV Switchgear Protective Relays.
- Testing 6.3KV Switchgear Protective Relays.

- Power Transformers Testing, Commissioning and start-up.
- Testing Interlock for C.B & disconnect switches and earth switches.
- Testing various types of Transducers (Current, Volt, Active power, Reactive power, Power Factor and Frequency) and measuring devices.
- Commissioning & installing of the protection panels.
- Modifying the protection panels including the protection relays.
- Repairing the electronic cards for various types of protection relay.
- Testing CT and VT.
- Troubleshooting of protection circuit.
- Design the electrical drawing for protection panels including the protection Relays using AutoCAD.

**Dates** : From 2009 till 2011  
**Employer** : West Delta Electricity Production Co. (WDEPC)  
**Project** : Abu Qir Thermal Power Plant  
**Job title** : Operation Engineer  
**Job Description** :

- Checking pumps, turbine bearings, boiler line, motor and record daily notes.
- Checking operation reading for temperature, level and current of all motors.
- Starting and shutting down boiler and turbine.
- Checking protection relay for generator, transformer, feeder and auxiliaries.

**Dates** : From 2008 till 2009  
**Employer** : MEC Door Company for automatic gate system  
**Job title** : Electrical & Control Engineer  
**Job Description** :

- Installation of electrical connection of doors.
- Maintenance of Motor and control Card of doors.
- Protection system for motor.

**Special Skills:**

- Program Atmel Microcontrollers.
- Program AVR Microcontrollers.
- Design Repair Eletronic circuit.
- Electronic and Electrical Device maintenance.

**Field of experience** :

- Summary:
  - About 15 years' experience in the Construction, Commissioning, Maintenance, Operation and QA/QC for Electrical Systems in Oil & Gas and Power Plants.
  - Employed with Organizations in many parts of the world such as: National Petroleum Construction Company, British Petroleum, BECHTEL, Carlo Gavazzi, DNV.GL, Egyptian Maintenance Company, EGYPTROL, Arab Potash Co., REMCO, Elsewedy and Electricity Production Company.
  - Responsibilities varied through Operation, Maintenance, Installation, Site Work Supervision, Site Management, Commissioning Execution, Commissioning Management, Planning and

- Coordination of various disciplines.
- Testing Software Experience:
  - SIEMENS DIGSI 4.
  - SIEMENS DIGSI 5.
  - SIEMENS Reydisp.
  - MICOM S1.
  - MICOM S1 Studio.
  - MICOM S1 Agile.
  - GE Enervist.
  - ABB PCM 800.
  - SEPAM SFT.
  - Easergy Studio.
  - SoMove.
  - AcSELerator.
- Testing Equipment Experience:
  - Conventional three phase secondary injection (I.S.A).
  - Omicron cmc 256 & 356.
  - FREJA.
  - CT Analyzer.
  - CPC 100.
  - TRAX 280.
  - Severker 900.
- Protection Relays Experience:
  - SIEMENS:
    - ❖ SIEMENS\_7SS522: Busbar differential.
    - ❖ SIEMENS\_7SA610: Distance.
    - ❖ SIEMENS\_7SL3242: Distance.
    - ❖ SIEMENS\_7UM622: Generator.
    - ❖ SIEMENS\_7UT612: Differential.
    - ❖ SIEMENS\_7UT613: Differential.
    - ❖ SIEMENS\_7UT85: Differential.
    - ❖ SIEMENS\_7UT86: Differential.
    - ❖ SIEMENS\_7SK85: Motor Protection.
    - ❖ SIEMENS\_7SJ82: Feeder Protection.
    - ❖ SIEMENS\_7SJ85: Feeder Protection.
    - ❖ SIEMENS\_7SJ50: Feeder Protection.
  - GE:
    - ❖ GE B90: Busbar differential.
    - ❖ GE-C60: Bay Control Unit.
    - ❖ GE L90: Line Differential.
    - ❖ GE DTP: Differential.
    - ❖ GE-T60: Differential.
    - ❖ MICOM\_ Agile P642: Differential.
    - ❖ MICOM\_ Agile P643: Differential.
    - ❖ MICOM\_ Agile P142: Feeder Protection.
    - ❖ GE-F60: Feeder Protection.
    - ❖ GE MIF II: Feeder Protection.
    - ❖ GE F 650: Feeder Protection.
    - ❖ GE MIC 7012: Feeder Protection.
  - SEL:
    - ❖ SEL 451: Bay Control Unit.
    - ❖ SEL 487B: Busbar differential.
    - ❖ SEL 411L: Differential.

- ❖ SEL 751A: Feeder Protection.
- ABB:
  - ❖ ABB REL100: Distance.
  - ❖ ABB REM615: Motor Protection.
  - ❖ ABB REF610: Feeder Protection.
  - ❖ ABB REF615: Feeder Protection.
  - ❖ ABB REF620: Feeder Protection.
- Schneider:
  - ❖ MICOM\_ P632: Differential.
  - ❖ MICOM\_ P634: Differential.
  - ❖ MICOM\_ P645: Differential.
  - ❖ MICOM \_ P241: Motor Protection.
  - ❖ SEPAM series 20: Feeder Protection.
  - ❖ SEPAM series 40: Feeder Protection.
  - ❖ Easergy P3U30: Feeder Protection.
  - ❖ Easergy P5F30: Feeder Protection.
  - ❖ TeSys: Motor Protection.
- BBC:
  - ❖ BBC LZ96: Distance.
  - ❖ BBC L3WYZ: Distance.
  - ❖ BBC GSX5: Generator.
  - ❖ BBC PAK410: Feeder Protection.
- AREVA:
  - ❖ MICOM\_ AREVA P441: Distance.
  - ❖ MICOM\_ AREVA P442: Distance.
  - ❖ MICOM\_ AREVA P121: Feeder Protection.
  - ❖ MICOM\_ AREVA P122: Feeder Protection.
- ALSTOM:
  - ❖ ALSTOM TA3110: Feeder Protection.
  - ❖ ALSTOM TA3220: Feeder Protection.
  - ❖ ALSTOM A325: Feeder Protection.
  - ❖ ALSTOM TDT34: Differential.
- ALLEN BRADLEY:
  - ❖ ALLEN BRADLEY 857: Feeder Protection.