

Holds a B. Sc. in Electrical Power & Machines Engineering and has over 12 years experience working in maintenance, testing and protection field for low, medium and high voltage electrical systems and equipment.

## **PERSONAL DATA**

Nationality : Egyptian  
Birth Date : 22/11/1986  
Gender : Male  
Marital Status : Married  
Residence : Alexandria

## **EDUCATION**

: B. Sc. in Electrical Power & Machines Engineering, Alexandria University, 2009

## **LANGUAGES**

Arabic : Native Language  
English : Good

## **COMPUTER SKILLS**

: Windows, MS Office, Internet  
: AutoCAD  
: Matlab  
: Smart Draw Program for electrical drawing  
: Circuit wizard program for electronic drawing and circuit simulation  
: ETAP software for short circuit calculations and circuit simulation  
: Simatic manager for PLC Siemens S7-300

## **TRAINING COURSES AND CERTIFICATIONS**

: GENERATOR & TRANSFORMER PROTECTION BASICS.  
: GENERATOR PROTECTION & GE PROTECTION RELAY.  
: ELECTRICAL CIRCUIT BREAKER MAINTENANCE.  
: SOLAR PV POWER PLANT DESIGN WITH PVSYST & HELIOSCOPE.  
: OPERATION & MAINTENANCE OF TRAVELING WATER SCREEN.  
: Trainings at:  
• Alexandria Petroleum Cooperation (summer 2007):  
- 11KV Distributers.

- PLC software.
- Moharam-Bk Distributors (summer 2008):
  - 11KV Distributers.
  - Testing of cables and transformers.
- Alex. University, Faculty of Engineering (S7 PLC Basic) (Apr. 2009).
- TARNOS Company in Travelling Water Screen System (Jan. 2011).
- METITO Company in Water & Waste Water Treatment Package (Jan. 2011).
- WDEPC Training Section "Generator & Transformer Protection" (Apr. 2011).

## CHRONOLOGICAL EXPERIENCE RECORD

- Dates** : From Jan. 2011 till now
- Employer** : WEST DELTA ELECTRCITY PRODUCTION COMPANY (WDEPC)
- Project** : Sidi Krir Power Plant (Combined Cycle 750MW)
- Job title** : Electrical Engineer
- Job Description** :
- Management activities:
    - Supervise the day to day electrical maintenance activities in the plant including preventive and corrective maintenance for all electrical equipment in accordance with overall maintenance plans, HSE guidelines to ensure effective functionality, plant availability and equipment reliability.
    - Planning outages and overhauling work activities for different electrical equipment and systems as per OEM recommendations.
    - Providing technical support to the electrical staff during maintenance activities of electrical equipment and systems.
    - Troubleshoot and conduct root cause analysis on all electrical equipment to ensure smooth and trouble-free operations.
    - Perform inspections on regular basis to follow-up on work progress of all electrical technicians to ensure that work progress is carried out as per work schedule.
    - Supervise the contractor during minor & major overhaul activities according to contract items.
    - Reviewing contractor reports and technical advisors time sheet.
    - Ensuring that all maintenance documentation for the electrical activities are completed correctly including the Maintenance Log, outlining the fault, method of repair and the time, labour and materials used to support timely availability of information and learn from previous mistakes.
    - Determine urgent spare parts for the electrical maintenance activities and preparing purchase orders to ensure accurate and timely availability of required stock.
  - Maintenance activities:  
Performing preventive and corrective maintenance work for all electrical equipment in plant including:
    - Generators & its circuits.
    - Power and distribution transformers.
    - Medium voltage switchgear.
    - Local control panels.
    - Low voltage load center.

- Motor control center.
- Low voltage Equipment.
- Diesel generator.
- Low voltage motors.
- Electrical Actuators.
- Gas turbine unit auxiliaries' circuits.
- DC Battery Chargers.
- UPS.
- Traveling water screen system.
- Hypochlorite generation system.
- Lighting network.
- Protection relays testing:
  - Beckwith Relays (Beckwith).
  - Alstom Relays (MiCOM).
  - Siemens Relays (Siprotec).
  - GE relay (Multilin).
  - Schneider relays (Sepam).
- Protection functions test:
  - Generator Protection function test.
  - Transformer Protection function test.
  - Medium voltage Switch-gear Protection function test.
  - Cable Protection function test.
- Electrical tests:
 

Performing electrical tests for electrical equipment including:

  - HV & MV Circuit breakers, including Testing of Anti slam, Anti pumping, pole discrepancy, function test, General lockout SF6, Contact Timing & DC Contact resistance.
  - Electrical & Mechanical tests of Power Transformers, including: Dielectric losses (Tan  $\delta$ ), Turns ratio, Winding DC resistance, Insulation resistance, testing of Buchholz relay, Pressure relief, winding temperature, oil temperature, oil breakdown voltage & oil dissolved gas analysis.
  - Static Excitation system, including thermograph test - DC Contact resistance test & Testing of alarm circuit.
  - CT testing.
  - VT testing.
- Testing devices:
  - Primary injection tester (OMICRON "CPC100").
  - Primary injection tester (Megger "ODEN AT").
  - Secondary injection test kit (OMICRON "CMC356").
  - Secondary injection test kit (FREJA 300).
  - DC contact resistance device (Megger "MOM200A").
  - DC diagnostic insulation testing device (Megger).
  - Earth resistance tester.
- Electrical drawings: Reading different types of electrical drawings Including: Single Line Diagram, Schematic Diagram, Logic Diagram and Layout for different companies schemes, such as: Siemens, Schneider, ABB, MHPS, GUTOR, Toshiba, Tarnos, etc.

**Dates** : From Jun. 2021 till Dec. 2021  
**Employer** : El Hamra Oil Company (Exploration & Production for Oil & Gas)

**Project** : Construction, Commissioning and Start-up for 11KV Substation and OHTL grid - Alamein, Yidma oil fields  
**Job title** : Testing & Commissioning Engineer  
**Job Description** : Construction, Commissioning and Start-up for equipment and parts of 11KV Substation to provide power supply for El Hamra Oil Company oil production wells at Alamin field.

**Dates** : From Mar. 2014 till May 2014  
**Employer** : North Coast Air Force Base  
**Project** : Construction work for Lighting Network - North Coast Highway  
**Job title** : Site Engineer

**Dates** : From Feb. 2010 till Dec. 2010  
**Employer** : Egyptian Detergents Company  
**Job title** : Electrical Maintenance Engineer  
**Job Description** : Ability to deal with the following:

- Low voltage control circuits.
- Construction, commissioning, testing, start-up & maintenance for control system of 10/12 ton service boilers (New Way Company "UK").
- Maintenance work for powder packaging machine.
- Maintenance work for low voltage motors.

Skills:

- Well versed in IEC Standard.
- Well versed in O&M manual of electrical systems.