

Holds a B. Sc. in Electrical Power & Machines Engineering and has about 11 years hands-on experience working in maintenance, testing and protection at Assiut Thermal Power Plant.

## **PERSONAL DATA**

Nationality : Egyptian  
Birth Date : 29/08/1976  
Gender : Male  
Marital Status : Married  
Residence : Assiut

## **EDUCATION**

: B. Sc. in Electrical Power & Machines Engineering, Assiut University, 2005

## **LANGUAGES**

Arabic : Native Language  
English : Good

## **COMPUTER SKILLS**

: Windows, MS Office, Internet

## **TRAINING COURSES AND CERTIFICATIONS**

: Course in maintenance the electrical transformers.  
: Course in method grounding the electrical equipment for safety the persons and equipments.  
: Course in maintenance the electrical motors.  
: Course in Microsoft computer (Windows XP – MS Office 2003).  
: Course in the English language.

## **CHRONOLOGICAL EXPERIENCE RECORD**

**Dates** : From 2006 till now  
**Employer** : Upper Egypt Electricity Production Company (UEEPC)  
**Project** : Assiut Thermal Power Plant  
**Job titles** :

- Electrical Maintenance Engineer
- Electrical Protection & Testing Engineer

- Job Description** :
- Testing of Generator, Transformer 220KV T.L./Busbar, Feeder/Busbar of 6.3KV Protection Relays, SF6 Gas CB Test.
  - Maintenance and operation the electrical testing on the electrical motors about 1000KW.
  - Maintenance and operation the electrical testing on the electrical transformers such as power transformer, distribution transformer, dry transformers).
  - Maintenance and operation the electrical testing on the motorizing valves.
  - Maintenance the electrical cranes.
  - Design and performance the electrical boards for the electrical motors and pumps.
  - Maintenance the electrical control circuit boards for the diesel emergency generator.
  - Maintenance the electrical control circuit boards for the central air condition system.
  - Detection and repair the electrical control circuit for air compressor.
  - Maintenance and operation the electrical testing on the voltage switches at voltage (6.3KV, 380V).
  - Maintenance and operation the electrical testing and the protection on distribution transformers at voltage (6.3KV/0.4KV).
  - Maintenance and operation the electrical testing and the protection on dry transformers at voltage (6.3KV/0.4KV).
  - Maintenance and operation the electrical testing and the protection on high generator at voltage (22KV).
  - Operation the electrical protection on overhead transmission lines at voltage (220KV).
  - Operation the electrical protection on high voltage bus bars at voltage (220KV).
  - Operation the electrical protection on failure circuit breaker at voltage (220KV).
  - Operation the electrical protection on disconnected voltage switches at voltage (220KV).
  - Repair the electronics cards for the electrical cranes.
  - Maintenance and operation the electrical testing on Fire Fighting System.
  - Operation the protective maintenance on bushing, serge arrester and voltage transformers on overhead transmission lines (220KV).
  - Repair and maintenance the electrical control circuit boards for working the water treatment and chemical injection units.
  - Repair and maintenance the electrical control circuit boards for working the sewage and choler units.
  - Maintenance the fire fighting system.
  - Relays I am testing:
    - 220KV Level:
      - Distance Relay: LZ96 – Razfe – L8b (ABB).
      - Over current Relay: TCO23B-DU2K, TCO21B-DU22K, TC022B-DU1K (TOSHIBA), PRAJ131 (ABB), SPAJ140C (ABB), 7SR11 (SIEMENS).
      - Earth Fault Relay: TCO21B-DUIK, TBB7B-DU2X (Restricted Earth Fault), TOSHIBA.

- Directional Relay: TDS2B-CG1, TDG20B-EG2 (TOSHIBA), SPAA321C (ABB), 7SR12 (SIEMENS).
- Differential Relay: TBB7B-DU2X, TB11B-TU2K (TOSHIBA), RADHA (ABB).
- Breaker Failure Relay: TCO24B-TU1Q (TOSHIBA).
- Under Voltage Relay: IVU1F-AG1, IVG1D-BG1 (TOSHIBA), UKT911 (ABB), TVU3F-BG21 (ABB).
- 6.3KV & 380V Level:
  - Over current Relay: ICO1D-AT3H, ICO1F-AT2H (TOSHIBA), IKC913 (ABB).
  - Earth Fault Relay: ICO1D-AT1 (TOSHIBA), IKC911 (ABB).
  - Differential Relay: IC1F-AT2H (TOSHIBA), IKC913 (ABB).
  - Under Voltage Relay: IVUIF-AG1, IVG1D-BG1 (TOSHIBA), UKT911 (ABB), TVU3F-BG21 (ABB).
- Generator protection:
  - Gen. Impedance back up Relay (21G): CYS2D-BS1 (TOSHIBA), RAKZB (ABB).
  - Gen. Reverse power Relay (32G): CW-12B-D (TOSHIBA), RXPE40 (ABB).
  - Gen. Loss of field Relay (40G): TYRID-BT1 (TOSHIBA), RAGPC (ABB).
  - Gen. Negative Phase Sequence Relay (46G): TQRID-MC4K (TOSHIBA), RARIB (ABB).
  - Gen. Over current Relay (51G): TCO21B- DU1K (TOSHIBA).
  - Gen. VT Voltage balance Relay (60G): TBV4D-DU1X (TOSHIBA), RAXBA4 (ABB).
  - Gen. Stator earth Relay (64G): TRG1D-MC6K (TOSHIBA), RAGEA (ABB).
  - Turbine/Gen. Under frequency Relay (81L): TFF6B-MC1K (TOSHIBA), RXFE4 (ABB).
  - Over frequency Relay (81H): RXFE4 (ABB).
  - Gen. Differential Relay (87G): TBR1F-BS2 (TOSHIBA), RADSB (ABB).
  - Gen. Transf. Differential Relay (87GT): TBT11B-TU2K (TOSHIBA), RADSB (ABB).
  - Gen. Over excitation Relay (59V/F): THV2D-MC5K (TOSHIBA), RATUB (ABB).
  - Gen. Field earth fault Relay (64GE): TCR3D-BS1 (TOSHIBA), RXNB4 (ABB).
  - Excitation transf. Differential Relay (87E): IBT1D-BT2 (TOSHIBA).
  - Dead machine Relay (51/27): RAGUA (ABB).
  - Under voltage Relay (27G): RXEG21 (ABB).
  - Over voltage Relay (59G): RXEG21 (ABB).
- Transformer Protection:
  - Over current Relay: SPAJ 142C (ABB).
  - Restricted Earth Fault: RADHD (ABB).
  - Earth fault Relay: RAXIG21 (ABB).
  - Differential Relay: RADSB (ABB).
  - Bochhlez Relay.
  - Pressure Relife Relay.
- Information about the test devices which used for testing the protection relays:

- PHU-100 (Japan).
- PHU-1040 (Japan).
- Sverker 650 (Italy).
- PGK 70H (Italy).
- SSTD3-TEB3 (Japan).
- SACE - SET1 (Italy).
- XS92a (Switzerland).
- M5032 (England).
- FG121B (Japan).
- SD – 310 (Japan).
- D.C. Multi Function Calibrator Model 1017 (England).
- CHAUVIN ARNOUX ISOL 5002 (France).
- KDK DPF – 30N (Japan).
- KDK MCS – 5N (Japan).
- YOKOGAWA 321323 (Singapore).
- M 4100/4 (Germany).
- IMI – 413 (Poland).
- ZSK - 2 (Japan).
- RST - 2 (Japan).
- KDK (Japan).
- WRT – 100 ADWEL (Canada).

**Further experiences:**

- Working and maintenance the electrical pumps.
- Sales Engineer for the bearing which used for the motors and pumps.
- Repair and maintenance the different types of contactors and thermal overload.
- Sales Engineer for spare parts the cars.