

Holds a B. Sc. in Electrical Power Engineering and a Diploma in electrical power system and protection. Has over 15 years hands-on experience doing protection and control works in Power Stations and Substations.

## PERSONAL DATA

Nationality : Egyptian  
Birth Date : 19/12/1977  
Gender : Male  
Marital Status : Married  
Residence : Gharbia

## EDUCATION

: B. Sc. in Electrical Power Engineering, Tanta University, 2000  
: Diploma in electrical power system and protection, Cairo University, 2011  
: Currently studying for M. Sc. at Cairo University

## LANGUAGES

Arabic : Native Language  
English : Very Good

## COMPUTER SKILLS

: Windows, MS Office, Internet  
: AutoCAD  
: Photoshop

## TRAINING COURSES AND CERTIFICATIONS

: Current transformer and voltage transformer (construction, testing, maintenance and technical assignment), North Cairo Training Center.  
: Measuring and power system, South Cairo Network Training Center.  
: Generator Protection and Excitation System at Alstom Training Center Mannheim, Germany.  
: Operating and programming of OMICRON's equipment, Sahara Group for engineering.  
: Electric protection, Nubaria Power Station.  
: English: TOEFL certificate.  
: Safety courses:

- Risk Assessment.

- First aid and CRP.
- HSE.
- Electrical Safety Rules.

## CHRONOLOGICAL EXPERIENCE RECORD

<b>Dates</b>	:	From Jun. 2007 till now
<b>Employer</b>	:	Middle Delta Electricity Production Company (MDEPC)
<b>Project</b>	:	Nubaria Power Station 3x750MW
<b>Job title</b>	:	Head of Electrical Maintenance and Protection Department
<b>Job Description</b>	:	<ul style="list-style-type: none"> <li>• Performing protection and control works in the stations and substations.</li> <li>• Leader of a group of engineers and technicians.</li> <li>• Organization of daily work and completion of various testing station.</li> <li>• Protection section the Modern digital and numerical relays protection such as: <ul style="list-style-type: none"> <li>- ABB relays (REL316x4, REL531 and REB500) for 220KV OHTL.</li> <li>- SIEMENS relays (7UM62 SIPROTIC) for CTG generators.</li> <li>- Micom family relays (P741-P742, P437-P442-P126-LFAA, P632-P141 and P143 for 500KV BUSBAR, OHTL and tie transformers 500/220/12KV).</li> <li>- GE Multilin relays (UR family T35-T60, MIFII, MTV and DTP) for CTG main and aux. transformer.</li> <li>- BECKWITH ELECTRIC relays (M-3425A, M-3310) for Mitsubishi (STG) Generator and Excitation Transformer.</li> </ul> </li> <li>• For 6.3KV distributions, we have Sepam I000 and Sepam I00LD, Schneider deliveries and ABB products REJ523 (OC, SC, EF...J and REU525 (UV, OV, etc.).</li> <li>• Participating in studying, analyzing, test and make specification for electrical components. <ul style="list-style-type: none"> <li>- 500KV switchyard control center.</li> <li>- 220KV switchyard control center.</li> <li>- 6.3KV switchgear panels.</li> </ul> </li> <li>• All tests on power transformers, CTs, VTs, CBs and bus bar in (500KV, 220KV, 16.5KV and 6KV).</li> <li>• Testing and maintenance of SF6 High Voltage Circuit Breaker (ABB, HITACHI).</li> <li>• Testing and maintenance of Gas Insulated Substation (GIS) switchgear.</li> <li>• These tests like: <ul style="list-style-type: none"> <li>- Tie, auxiliaries and main transformers commissioning tests [Tan <math>\Delta</math> test, insulation (MEGGER) test, DC resistance.</li> <li>- Transformers mechanical protection relays tests (Buchhlez relay, pressure relief device, rapid pressure device.</li> <li>- CBs tests (timing, DC resistance, high voltage test for 500KV CBs and Megger test).</li> <li>- CTs tests (turns ratio, magnetizing test, polarity test).</li> <li>- VTs tests (turns ratio, insulation (Megger) test).</li> <li>- Disconnecting switches tests (timing and contact resistance test).</li> <li>- Cable tests (insulation resistance and high voltage tests).</li> <li>- Busbar stability test.</li> <li>- Power Transformer stability test.</li> <li>- Power Transformer vector group test.</li> </ul> </li> </ul>

**Dates** : From Apr. 2002 till Jun. 2007  
**Employer** : West Delta Electricity Production Company (WDEPC)  
**Project** : Kafr El Dawar Power Station 4x110MW  
**Job title** : Steam Power Station Operating Engineer  
**Job Description** : Carrying out factory electrical maintenance.

**ELECTRICAL SIMULATION SOFTWARE APPLICATIONS SKILLS:**

- ETAP applications.
- ATP/EMTP Software.
- Easy power Software.
- Power World Simulator Software.
- Good aware of international standards (IEC, IEEE and NEMA).

**Part time work:**

Khalla Almalada Co. (OMAN), DCRP License as Protection Engineer:

- Short circuit study for substation.
- Protection relays setting calculation for switchgears, transformer, OHTL and Underground cables.
- ETAP Pro short circuit study and relay setting coordination's.
- Commissioning tests review for air and GIS substations equipment.

**Projects with Majan and Mazoon companies:**

- Install New 33KV Feeder Interlink to connect new buraimi - 2 grid station (buraimi governorate) - tender no. mjec/147/2013.
- Upgrading Dank - 2 Primary SS from 1 x 6MVA to 2 x 6MVA and its associated Electrical works (Dhahirah Governorate) - TENDER NO. MJEC/14/2014 updated- 6.8.2014.
- T05 – Khabuorah substation new feeder installation North Al Batinah governorate.
- Construction of new Oqda 2x20mva Primary Substation in Al Buraimi Governorate mjec Tender NO. 139/2013. Description of work: testing and installation of 14 nos. 11KV, 350MVA switchgear panels complete with circuit breakers, protection and control, relays Testing and installation of 33KV GIS indoor switchgear panels comprising of 2 nos. incomer panels, 1 no. bus section panel and 2 nos. transformer control panels complete with CTS / VTS, circuit breakers etc.
- MZEC T.No.87/2013 (3\*20) MVA Primary Substation (33/11KV) AT Abu Abali Sahil Mazoon Company. Description of work: Testing & Commissioning of 33KV Indoor AIS Switchgear cubicles comprising of 3 Nos. incomer panels, complete with CTs /VTs, circuit breakers, including all accessories. Testing & Commissioning, including transportation of 24 Nos. 11KV Indoor AIS Switch gear cubicles complete with Circuit Breakers, Protection and Control relays, digital metering.
- MJEC T.No.86/2013 - Upgrading of Rumailah PSS from 2x6MVA to 2x20MVA (North Batinah Governorate).
- Upgrade MUWAILAH - 2 Primary Substation from 2x6MVA TO 2x20MVA MAJAN ELECTRICITY COMPANY.

### **APEX DUBAI - Training short courses program conducted by me:**

- Date Jul 31 – Aug 03, 2016 and Aug 07 – Aug 10, 2016: Installation, Operation & Trouble Shooting of Electrical Protection Relays, LV & HV Circuit Breakers at Muscat, Oman, to Daleel Petroleum.
- Date Jul 12 - 14, 2016: Power System Protection & Analysis at Gabal Ali Dubai, UAE to DEWA Elec. Company.
- Date Feb 01 - 03, 2016: Power System Protection & Analysis at Gabal Ali Dubai, UAE to DEWA Elec. Company.
- Date 13-17 Dec 2015: Power Transformer Diagnostic Techniques & Monitoring at Yasaat Hotel Dubai to Abu Dhabi Distribution Company (ADDC).
- Date 18-22 Oct 2015 and Date 1-5 Nov 2015: Electrical Drawing at Best Western Hotel and Ramada Hotel (Muscat) to Daleel Petroleum.
- Date 6-10 Sep 2015: Industrial UPS System & Battery Chargers at Yasaat Gloria Hotel Dubai to Iraq Basra Gas.
- Date 7-11 Jun 2015: Electrical Fault Analysis (Causes, Detection and Remedies) at Yasaat Gloria Hotel Dubai to FEWA Elec. plus Bahrain Electricity & Water Authority (EWA).
- Date 7-11 Sep 2014: Power System Operation & Maintenance Network Components (11KV & 33KV) at Muscat Oman to MEDC Oman.
- Date 14-16 Oct 2014: Electrical Power Substation (Equipment's, Controls and its Maintenance) at Muscat Oman to HAYA Water.

### **ISCOSA Siemens Co. Saudi Arabia - Training short courses program conducted by me:**

- Date 1-5 Jun 2014: UPS and battery charger operation and inspection at Doha Qatar to KAHRAMA.
- Date 8-12 Jun 2014: UPS and battery charger operation and inspection at ISCOSA Training Center (Dammam) to Sabic.
- Date 15-19 Jun 2014: Distribution transformer maintenance and inspection at ISCOSA Training Center (Dammam) to Sabic.
- Date 22 Dec 2013 to 1 Jan 2014: Protection and control relay at Qurayyah combine cycle power plant to Arabian Bemco and Sec Company.
- Date 2-3 Feb 2013: Electrical operation, inspection, maintenance and testing of I.v. Swichgear to ARABIAN BEMCO Company (Qurayaa Power Plant) Saudi Arabia.
- Date 24-28 Nov 2013: Switchgears, Sabic (Al Gobail) Saudi Arabia.
- Date 17-21 Nov 2013: Developing Electrical Trouble Shooting Skills at ISCOSA Training Center (Dammam).
- Date 13-14 Nov 2013: Protection System to SIPCHEM (Al Gobail) Saudi Arabia.
- Date 12 Nov 2013: Switchgears to SIPCHEM (Al Gobail) Saudi Arabia.
- Date 11 Nov 2013: Transformers to SIPCHEM (Al Gobail) Saudi Arabia.
- Date 10 Nov 2013: Facility Operation and Trouble Shooting to SIPCHEM (Al Gobail) Saudi Arabia.
- Date 6-10 Apr 2013: Distribution Automatic Circuit Reclosers to SEC CO. NOVOTEL HOTEL RIYADH.
- Date 14-18 Jul 2012: Motor Testing And Maintenance to (YAMAMA Cement) Company.
- Date 14-18 Jul 2012: Electrical Maintenance Troubleshooting to (QAFCO) Company.

- Date 5-6 Feb 2012: UPS Dc System And Switchgear at Tabuk Power Station to Saudi Electric Company.
- Date 4 Feb 2012: Protection and Protection Coordination at Tabuk Power Station to Saudi Electric Company.
- Date 1 Feb 2012: Siemens Transformer at Tabuk Power Station to Saudi Electric Company.
- Date 31 Jan 2012: Areva Generator Circuit Breaker at Tabuk Power Station to Saudi Electric Company.
- Date 19-23 Nov 2011: Motor protection to YANPET (Sabic) Company (Yanbu Saudi Arabia).
- Date 12-16 Nov 2011: Battery and battery charger operation and maintenance to Saudi Electric Company (at Abha Training Center).
- Date 29 Oct – 2 Nov 2011: Operation and maintenance of OHTL to Saudi Electric Company.
- Date 22-26 Oct 2011: Operation and maintenance of 13.8KV distribution network to Saudi Electric Company.

#### **Relays Software Application Skills:**

- CAP (for ABB product).
- MICOM S1 (for AREVA T&D products).
- EnerVista (for GE MULTILIN products).
- IPSCOM (for BECKWITH ELECTRIC products).
- SFT2841 (for Schneider products).
- DECSI 4 (for SIEMENS products).
- In addition to test sets software.

#### **SECONDARY INJECTION DEVICES APPLICATIONS SKILLS:**

- (Omicron CMC356) 6 phase secondary injection tester.
- Omicron CPC100 Primary injection test set.
- ISA T300 Power system analyzer test set.
- (ISA DRTS) 3 phase secondary injection tester Corporation.
- (MANTA) 3 phase secondary injection manual tester.
- (PGK\_HB) High voltage tester 50KV (AC), 70KV (DC).
- (SEVERKER 750) Single phase secondary injection manual tester.
- (ISA) Single phase secondary injection tester.
- (CRD-100X2) (ADWEL) Contact resistance tester.
- (CT – 6500.), (VANGURD) Circuit breaker Analyzer.
- (C-A 6460.), (MEGGER DET) Earth resistance tester.
- (MEGGER BITE 2) 1 Battery internal impedance.
- (ALCL – 40) Multi Arrester clamp leaker.
- (WRT-100) (ADWEL) Winding resistance test set.
- (AVO international) Capacitance & Dissipation factor test set.
- (ODEN – Programma) Automatic Capacitance & Tan Delta test set.
- And another primary injection sets (ODEN – Programma) 3000A.
- Earth leakage detector of dc system device.
- And many another tests sets.