

Holds a B. Sc. in Electrical Machines & Power Engineering and a Diploma in power system protection. Has about 6 years hands-on experience in operation, protection, testing and commissioning at several substations.

PERSONAL DATA

Nationality : Egyptian
Birth Date : 15/03/1982
Gender : Male
Marital Status : Married
Residence : 6th of October

EDUCATION

: B. Sc. in Electrical Machines & Power Engineering, Helwan University
: Diploma in power system protection, Cairo University

LANGUAGES

Arabic : Native Language
English : Very Good

COMPUTER SKILLS

: Windows, MS Office (Word, Excel, Power Point), Internet

TRAINING COURSES AND CERTIFICATIONS

- : Power System Operation (Network Training Center, Ministry of Electricity and Energy).
- : Distribution System (Orascom Construction Company, Smart Village).
- : Power System Operation (Egyptian Electrical Production Company).
- : Certifications from Network Training Center (NTC) – Ministry of Electricity & Energy:
 - Instrument transformer and Power transformer:
 - C.T. & V.T. testing, wiring and its equivalent circuit.
 - Power measuring using two-watt meters.
 - Protection fundamentals:
 - Electromechanical relays.
 - Static relays.
 - Digital relays.
 - Auxiliary relays.

- Bus-bar protection:
 - Concept of bus bar protection.
 - Training on stat relay (BBC), RADS (ASIA).
 - Study Bus-Bar protection schemes; study the different between them.
- Main basics of digital relays:
 - Introduction to microprocessor relays and protection systems.
 - Hardware of digital protective relays.
- Differential protection:
 - Course in Differential protection schemes and study the problems could restrain the true operation.
 - Training on RADSB (ASIA).
- Distance protection:
 - Course in Distance protection schemes and study the principle of Impedance Relays.
 - Training on relays:
 - Static: RAZOA (ASIA), SD3 (BBC).
 - Digital: MICOM (ALSTOM).
 - Electromechanical: RD110, LH1a.

CHRONOLOGICAL EXPERIENCE RECORD

Dates	:	From Dec. 2005 till now
Employer	:	Egyptian Company for Electricity Transmission (EETC)
Job Description	:	<ul style="list-style-type: none"> • Protection, Testing & Commissioning Engineer of 66/11KV Substations (from Jun. 2007 till now): <ul style="list-style-type: none"> - The job includes testing & commissioning work of the protective relays installed on the following equipment: <ul style="list-style-type: none"> ▪ 11KV feeders: <ul style="list-style-type: none"> ○ Over Current Relay. ○ Directional Over Current Relay. ○ Earth Fault Relay. ○ Directional Earth Fault Relay. ▪ 66/11 (Δ/Y 11) KV Power Transformer, 11KV side: <ul style="list-style-type: none"> ○ Over Current Relay. ○ Earth Fault Relay. ○ Restricted Earth Fault Relay. ▪ 66/11 (Δ/Y 11) KV Power Transformer, 66KV side: <ul style="list-style-type: none"> ○ Differential Relay. ○ Over Current Relay. ○ Breaker Failure Relay. ▪ Mechanical Protection: <ul style="list-style-type: none"> ○ Buchhloz Relay. ○ OLTC Buchhloz Relay. ○ Pressure Relief Relay. ○ Oil Temperature Relay. ○ Winding Temperature Relay. ▪ 66KV Line Feeder: <ul style="list-style-type: none"> ○ Distance Relay. ○ Over Current Relay. ○ Directional Over Current Relay.

- Earth Fault Relay.
 - Directional Earth Fault Relay.
 - Breaker Failure Relay.
- 66KV Bus Bar:
 - Bus Bar Differential Relay.
- I have the ability to program the protective numerical relays such as:
 - SIEMENS (7SJ600 – 7SG602 – 7UT.. – 7SA.. – 7SD..)
 - AREVA (MICOM P441 – P127 – P126 – P126)
 - SEL (SEL321) & GE

by a relevant software such as Digsig4, MiCOM S1, SEL5010 respectively; and to test using advanced test sets isa "DRTS-6", OMICRON "CMC256-6" and have joined in the commissioning work of "Elbadrasheen" & smart village substation "EGEMAC". El-Kureimat 66KV "Siemens" and elmashtel "Areva".

Job title: Electrical Power Engineer, this position aims to supervise and operate a lime stone breaker.
- Responsibilities:
 - Testing and operating protective relays using modern computerized testers.
 - Installing and commissioning protective relays for transformers and transmission lines.
 - Panel board termination, control and start-up activities.
 - Installing, commissioning, wiring and testing of current transformers and voltage transformers.
 - Installing and commissioning power transformers.
 - Fault Analysis.
 - Dealing with different types of electrical blueprints including Siemens, ABB, Electroimpex, Egemac and Marlinegran.
- Accomplishments:
 - Installing and commissioning the extension of Faisal substation including 2 power transformers and 4 transmission lines.
 - Commissioning the new El-Lathy substation.
 - Replacing the mechanical protective relays to digital relays in all substations within my region.
 - Replacing Air Blast and Minimum oil circuit breakers to SF6 in most of the substations within my region.
- Achievements in EETC:
 - Replacement of Swedish "RAZOA" static distance relay by American "SEL" digital distance relay. "Tebin #7" substation.
 - Replacement of three EAW "RSQ4T1" electromechanical differential relays by SIEMENS "7UT612" digital differential relays, "Al Ayate" substation.
 - New installation of four American "SEL" digital distance relays, "El Alamain" substation.
 - Replacement of two EAW "RD110" & one BBC "LH1" electromechanical distance relays by SIEMENS "7SA611" digital distance relays, "El Warak" substation.
 - New extension work of two 66/11KV, 25 MVA "ELMACO" power transformers, "El Warak" substation.
 - Replacement of four EAW "RSQ4T1" electromechanical differential relays by SIEMENS "7UT612" digital differential relays, "El Alamain" substation.

- Substitution work of 11KV feeders "EAW" by "EGEMAC", "Al Ayate" substation.
- Substitution work of 6.3KV feeders "EAW" by "ABB", "Ain Helwan" substation.
- Replacement of seven 66KV CB's "Polish" minimum oil CB's by "ABB" SF6 CB's, "Tebine# 3" substation.
- Replacement of two EAW "RD110" electromechanical distance relays by SIEMENS "7SA610" digital distance relays, "Kafr El Alow" substation.
- Replacement of two BBC "LH1" electromechanical distance relays by SIEMENS "7SA610" digital distance relays, "Shamal El Saf" substation.
- Replacement of two 66KV CB's "EAW" air blast CB's by "ABB" & "EGEMAC" SF6 CB's, "Al Ayate" substation.
- Replacement of five 66KV CB's "EAW" air blast CB's by "ABB" SF6 CB's, "El Warak" substation.
- Replacement of five 66KV CB's "EAW" air blast CB's by "ABB" SF6 CB's, "El Alamain" substation.
- Replacement of one 66KV CB "GE" Sf6 CB by "ABB" SF6 CB, "Abu Rawash" substation.
- Replacement of 66/11KV, 12.5 MVA "EAW" power transformers by 66/11KV, 20 MVA "EGB" power transformers, "Al Ayate" substation.
- Replacement of 66/11KV, 25 MVA "French" power transformer by 66/11KV, 25 MVA "ELMACO" power transformers, "El Warak" substation.
- Operation Engineer in Sabtia Substation 220/66/11KV (the most vital substation in Cairo), Dec. 2005 till Jun. 2007:
 - Responsibilities: overseeing, managing and operating all elements of the substation including transformers, circuit breakers, switches and protection relays.

Further experiences:

- Experience with Siemens protective relay software (digi).
- Experience with ISA tester software.