

Holds a B. Sc. in Electrical Engineering and has over 4 years hands-on experience working in maintenance, operation and commissioning.

PERSONAL DATA

Nationality : Egyptian
Gender : Male
Residence : Mansoura

EDUCATION

: B. Sc. in Electrical Engineering, Mansoura University, 2012

LANGUAGES

Arabic : Native Language
English : Fluent

COMPUTER SKILLS

: Windows, MS Office, Internet
: DIGSI 4.91, Proteus, ATPdraw & Matlab

TRAINING COURSES AND CERTIFICATIONS

- : 6 months of practical training, certified by SIEMENS, contains the following:
 - Four months training program by Siemens Germany in Talkha Power Station as a part of Mega-Project Egypt Training which included:
 - Foundation Training.
 - Fundamental Technical Training.
 - Basic Operation Training for Combined Cycle Power Plant.
 - Two months training by Siemens Germany in Germany as a part of Mega-Project Egypt Training which included:
 - Simulator Training (SPPA-T3000) for open and combined cycle in Siemens Operation and Maintenance Training Centre, Erlangen.
 - Gas Turbine (SGT5-8000H) Training in Siemens Training Centre and Factory, Berlin.
 - Steam Turbine (SST5-5000) and Generator (SGen5-2000H) Training in Siemens Training Centre and Factory, Essen.
- : SWG and power transformers maintenance, Delta Fertilizers (Jul. 2010).
- : PLC (Programmable logic controller), Mansoura University (20 hrs) (Sep. 2010).
- : Electrical maintenance for combined cycle power plant, Talkha Power Plant (Aug. 2011).

- : Electrical Installation in Industrial, commercial and Resident Buildings using AutoCAD, Mansoura University (12 hrs) (Feb. 2012).
- : Distributed Control System (DCS), ABB Cairo (15 hrs) (May 2015).
- : Protection Relays, ABB Cairo (15 hrs) (May 2015).
- : Hazardous Areas, PEP Arab (16 hrs) (May 2015).

CHRONOLOGICAL EXPERIENCE RECORD

- Dates** : From May 2016 till now
- Project** : Burullus Power Plant:
- 4x1200MW combined cycle multi shaft system (Siemens MEGA Project), Gas Turbine (SGT5-8000H), Steam Turbine (SST5-5000) and Generator (SGen5-2000H).
 - SPPA T3000 control system (Siemens).
 - 500KV GIS (Siemens) 24 bays 8DQ1 type.
- Job title** : Operation Engineer
- Job Description** :
- Identify operational problems by observing and studying system functioning and performance results; investigating complaints and suggestions; interviewing process supervisors and operators; completing troubleshooting procedures.
 - Identify operational priorities by assessing operational objectives; determining project objectives, such as, efficiency, cost savings, energy conservation, operator convenience, safety, environmental quality; estimating relevance, time and costs.
 - Anticipate operational problems by studying operating targets, modes of operation, unit limitations; monitoring unit performance.
 - Improve operational quality results by studying, evaluating, and recommending process re- design; implementing changes; contributing information and opinion to unit design and modification teams.
 - Maintain safe and healthy work environment by following and enforcing standards and procedures; complying with legal regulations.
 - Provide operational management information by collecting, analyzing, and summarizing operating and engineering data and trends.
 - Accomplish engineering and organization mission by completing related results as needed.
- Dates** : From Apr. 2015 till May 2016
- Employer** : Delta Fertilizer Co.
- Project** : Main substation of Delta:
- 2 x 35MVA power transformers 66/11KV (Brown Boveri (BBC) made).
 - 11KV & 2.2KV SWGs (Foster Weller made) with electromechanical protection relays types (BBC, CGE) installed on air C.Bs type (SACE Bergamo).
 - Additional ABB protection system (Relion series relays) using with 11KV SWG controlled by ABB Freelance controller (900F).
 - 0.4KV SWG (Culter Hammer "Eaton" made) with electromechanical protection relays.
- Job title** : Electrical Operation & Maintenance Engineer

- Job Description** :
- Testing and commissioning for SWG components (Protection relays, C.Bs, Measurement instruments,).
 - Breakdown & preventive maintenance of the site's electrical loads and devices (Motors, cables, switches, lighting loads,).
 - Carrying out the trouble shooting of the substation, SWG and the site for all electrical devices and loads.
 - All periodic operation and control actions of the substation.
 - Selectivity of the required electrical components (cables, switches, contactors, fuses,).
 - Man power management for day to day work.
 - Spares and store management for the substation trouble shooting and annual maintenance.
 - Responsible for modifying the work carried out in the substation.
 - Technical Core Competencies:
Well knowledge and excellent capacity with the installation, testing & commissioning of the following electrical systems:
 - ABB Relion series protection relays (REF601, REM615 & REF630).
 - Siemens feeder protection Relay (7SJ8011).
 - ABB Motor AC drive (ACS800).
 - ABB Freelance controller (900F) using Modbus communication protocol.
 - Classic protection control of feeders, outgoings, motors & power transformers at various voltages (11, 2.2 & 0,4KV).
 - Electromechanical relays (Over & under voltage, over current, Instantaneous over current, short circuit current, thermal over load,....) and measurements instruments.
 - AC induction motors (11, 2.2 & 0,4KV) with full protection and control system.
 - Electrical beam winches 30 Ton & 10 Ton (Defries Titano).
 - Air compressor Atlas Copco (GA500).

Dates : From Apr. 2013 till Apr. 2015

Employer : Egyptian Armed Forces

Project : Military Service

Job title : Electrical Maintenance Engineer for (PV, UPS) systems & electronic circuits

- Job Description** :
- Full implementation of the system installation for PV & UPS systems.
 - Performing the periodic test for power electronic circuits & Photo Voltaic (PV) system devices and fixing technical problems if any.
 - Testing and performing the required maintenance of electronic and control circuits of diesel generators.
 - Following up The process of assembling solar cells to build solar power arrays.
 - Preparing maintenance reports for devices malfunction and required correction action.
 - Preparing the required spare parts request and store inventory control.
 - Raising manpower and tools requirements report on daily basis.
 - Technical Core Competencies:
Well knowledge and excellent capacity with the installation, testing & commissioning of the following electronic systems:
 - Solar inverters with varies capacities up to 100 KW (Conext, Xantrex, Heart Interface, Power Star,).

- Battery charging regulators up to 100 A (STECA, Xantrex,).
- Control circuits of diesel generators (AVR, Speed Governor, KN2,) for various types (Cummins, Allis, On nan, Caterpillar, DEUTZ, Volga,).
- Measuring and testing most of power electronic components.
- Complete mastery of releasing and installing the electronic components in cards, test their tracks and fix or reconnect the disconnected one.
- ICs validity determination device (Boardmaster).