

Holds a B. Sc. in Electrical Power & Machines Engineering and has over 4 years hands-on experience working mainly in design field.

PERSONAL DATA

Nationality : Egyptian
Gender : Male
Residence : Nasr City, Cairo

EDUCATION

: B. Sc. in Electrical Power & Machines Engineering, Ain Shams University, 2012
: Studying for M. Sc. in Electrical Power & Machines Engineering, Ain Shams University (from 2015 till now)

LANGUAGES

Arabic : Native Language
English : Very Good
German : Fair
French : Fair

COMPUTER SKILLS

: Windows, MS Office, Internet
: AutoCAD
: Bentley mirco station
: Dialux
: ETAP
: Micro C for pic & Proteus electronic design – Matlab & C/C++ programming
: Revit
: CDEGS Earthing software

TRAINING COURSES AND CERTIFICATIONS

: Matlab (Jelecom).
: Electrical distribution (AutoCAD – ETAP – Dialux) (Jelecom).
: Microcontroller (Jelecom).
: Programmable Logic Control (PLC).
: English: Toefl IBT test.

: German: Goethe certificate.

CHRONOLOGICAL EXPERIENCE RECORD

- Dates** : From Jun. 2015 till now
- Employer** : Dar Engineering (Alfanar Co.)
- Projects** :
 - Al Wajh 380/132/33/13.8KV BSP
 - Modon Jeddah Expansion 380/110KV S/S
 - Airport II 110/13.8KV S/S
 - Yanbu Phase 3 Seawater Desalination Plant
 - Governement Compound Makkah 110/13.8KV S/S
 - MURJAN 110/13.8KV S/S
- Job title** : Primary Electrical Design Engineer
- Job Description** : Main Duties to design but not limited to the following:
- Studying electromagnetic and electrostatic fields effect of high voltage transmission conductors on nearby equipment in the substation.
 - Station Service Transformer Sizing.
 - Study proposed offers from different vendor & giving comments on them.
 - LV AC CB Sizing.
 - LV AC Cable Sizing.
 - Battery & Battery Charger Sizing.
 - DC CB Sizing.
 - DC Cable Sizing.
 - Short Circuit Calculation.
 - Shielding System.
 - Grounding & earthing system (Reinforcement & Equipment earthing).
 - Indoor/Outdoor Lighting & Auxiliary Power.
 - Opening and Cable Duct Bank.
 - MV & HV Cable Routing.
 - LV Cable Raceway along with loading and filling calculation.
 - Preparing B.O.Q for the materials.
 - Circuit breaker setting (MCCB, AIR, ...).
 - DC & AC cable termination.
 - Interfacing between auxiliary panels & control & protection panels.
-
- Dates** : From Jun. 2014 till May 2015
- Employer** : Electric Power System (EPS)
- Projects** :
 - New Gamasa GIS Substation 220/66/11KV
 - BADR GIS Substation 500/220KV
- Job title** : Medium - High Voltage Design Engineer
- Job Description** :
 - Designing proposal single line diagram for substations (GIS / AIS) using appropriate software (ex.AutoCAD).
 - Preparing tendered documents for the substations including various chapter and sections.
 - Revising contractor documents based on the specification documents.
 - Adding comments and giving approval with seniors to the contractor proposed documents after revising them.

Dates : From May 2013 till May 2014
Employer : Egyptian Aviation Services (EAS)
Project : Sharm El-Sheikh Airport (Egypt)
Job title : Electrical Engineer
Job Description :

- Troubleshooting for any malfunction in the electrical/electronic systems for the ground service equipment including passenger shuttle buses (Neoplan, Cobus), Air craft tractors (GOLDHOFER, SCHOPF), Passenger stairs (FMC, STINAR), Ford F-350 trucks.....etc.
- Using wiring diagrams and advanced diagnostic tools in the troubleshooting process.
- Monitor preventive maintenance plans and ensuring its performance in the same time as it was planned for every equipment.
- Record any work has been done because of any malfunction in every equipment logbook.
- Lead group of technicians and organize the work for them.

Skills:

- PLC SIEMENS S7 300.
- Microcontrollers (PIC & AVR).
- Excellent knowledge about the design of electrical substations (GIS & AIS).
- Excellent knowledge about electrical protection and it' different schemes plus the ability to design and understand schematic diagrams that are related to them.
- Electronic circuits designs and power electronics.
- Ability to study any building/substation layouts in order to start electrical work in them.
- Diagnosis of the electrical circuits using Wiring diagrams and diagnostic tools of any automotive vehicle.
- Good knowledge about Hydraulics and pneumatic systems.

Projects (during education):

- Anti Islanding protection Relay (Graduation Project):
 - Anti islanding protection relay that will detect the loss of the grid during distributed generation and to protect the electrical distribution network from the hazard of the islanding.
- Modifying the transmission keypad of the shuttle buses:
 - Replacing the mechanical parts in the keypad (which have short life time) with an electronic circuit and relays that perform the same function and has longer life time.
 - Develop the schematic diagram for this circuit and the issue of its connection with the main vehicle wiring harness.
- Overheating detection circuit for any diesel engine:
 - Design and assembly of an electronic circuit using micro-controller and some electronic devices that monitor the temperature of the engine and detect overheating.

Papers & Conferences:

- "The Effect of the Fault Impedance on the Performance of the Directional Over Current and Directional Earth Fault Relays in Compensated and

- Uncompensated Transmission Line Networks - A case study".
- "GCC Cigre Qatar 2016".