

**105637-ELE-D-E-2016**  
**HV/MV Primary Electrical Design Engineer**

Holds a B. Sc. in Electrical Power & Machines Engineering and has more than 1 year hands-on experience working in design field.

## PERSONAL DATA

Nationality : Egyptian  
Birth Date : 08/07/1993  
Gender : Male  
Marital Status : Single  
Residence : Maadi, Cairo

## EDUCATION

: B. Sc. in Electrical Power & Machines Engineering, Helwan University, 2016

## LANGUAGES

Arabic : Native Language  
English : Good

## COMPUTER SKILLS

: Windows, MS Office (Word, Excel, Power Point), Internet  
: AutoCAD  
: MICROSTATION for drawings  
: ETAP program  
: DIALUX for lighting calculation

## TRAINING COURSES AND CERTIFICATIONS

: Design of Electrical System Course.  
: Classic control.  
: Programmable Logic Controllers (PLC).  
: Transformers and transmission lines, Networking Training Center in Southern Cairo (2013).  
: Trainings at:

- South Cairo Generation Station (2014).
- Elsewedy Electric (2015).
- Cairo Tunnel Metro (2016).

## CHRONOLOGICAL EXPERIENCE RECORD

- Dates** : From Oct. 2016 till now
- Employer** : Middle East Engineering Consulting Office (MEECO)
- Projects** :
  - Rehabilitation and restoration of 110/13.8KV Bani Najjar substation (Madinah, Saudi Arabia)
  - Extension of existing 380/110KV s/s Yunbu-3 BSP
  - Extension of existing 132/13.8KV s/s 8107 (ssem)
  - Assist for construction of s/s # 8841, 8845, 8525, 8925, 8810, 8814 (ABC).
  - Assist for construction of s/s # 7196, 33/13.8KV (innovative system)
  - Extension of existing 13.8KV Power Plant (Salwa project)
- Job title** : HV/MV Primary Electrical Design Engineer
- Job Description** :
  - Preparing operational single line diagram.
  - Preparing general equipment layout of substation.
  - Preparing Substation equipment arrangement & individual rooms layout.
  - Preparing HV/MV/LV cable sleeves, opening & duct bank.
  - Preparing substation power cable & control raceway, supports, trays & ladders.
  - Preparing power cable schedule (for AC & DC cables).
  - Preparing bill of quantity for (cables, trays, ladders, lighting fixtures, shielding & earthing components).
  - Preparing substation shielding layout.
  - Lighting package (calculation, layout, cable sizing, CB sizing, SLD and panel board schedule).
  - Preparing AC load schedule & Aux transformer sizing calculation.
  - Preparing LV AC CB & cable sizing calculations.
  - Preparing 400/230V AC single line diagram.
  - Preparing DC load schedule, 125V DC battery & charger sizing calculation.
  - Preparing DC CB & cable sizing calculation.
  - Preparing 125V DC single line diagram.
  - Load flow study, coordination study and short circuit study by using ETAP program.
  - Preparing Setting for LV AC and DC Circuit breakers.