

Holds a B. Sc. in Electrical Power & Machines Engineering and has over 8 years of experience in Substation (protection, control, relay setting and all calculation), Residential, Commercial, infrastructure & Industrial Projects Experience in Gulf projects.

PERSONAL DATA

Nationality : Egyptian
Birth Date : 15/10/1987
Gender : Male
Marital Status : Married
Residence : El-Zaiton, Cairo

EDUCATION

: B. Sc. in Electrical Power & Machines Engineering, Ain Shams University, 2009
: Master in Electrical Power & Machines Engineering, Ain Shams University (Preliminary year: Cumulative GPA: 3.7 out of 4)

LANGUAGES

Arabic : Native Language
English : Very Good
French : Fair

COMPUTER SKILLS

: Windows, MS Office (Word, Excel, Power Point), Internet
: ETAP
: Ecodial
: AutoCAD 2D (for 2 Dimensional Engineering drawings)
: Dialux
: Matlab: Simulink, Programming
: Photoshop (CS3)
: Micro station (V8) Program
: Revit

TRAINING COURSES AND CERTIFICATIONS

: Zedny Human Resources Course (Time Management, Planning, Mind Mapping, 7 challenges of Communication and Leadership).
: ICDL (Word, Excel, Power Point, Access (2003), IT and Net).

- : Revit in Jawda Consultants.
- : Visual Basic
- : Trainings at:
 - South Cairo for electric distribution (summer 2008): Protection & Low and Medium voltage networks.
 - Egypt Air (summer 2007): Electric distribution in the planes & Plane components testing.
 - Consultative Office (from Sep. till Dec. 2009).

CHRONOLOGICAL EXPERIENCE RECORD

- Dates** : From Apr. 2017 till now
- Employer** : MADKOR EPC
- Job title** : Senior Electrical Design Engineer (Protection and Control Engineer)
- Job Description** :
- Full substation drawings interfacing, cable schedule and final termination.
 - Design of SAS, SCADA, SOE, TFR and Annunciation systems.
 - CT/VT sizing and adequacy calculation.
 - Design Interlock Block Logic Diagram for all circuit breaker, disconnecting switch and earthing switch.
 - Review and revise Manufacturer (ABB, Siemens....etc.) Base Design.
 - Design Protection Single Line Diagram for overhead line, transformer (main and auxiliary), bus coupler (HV and MV), bus section, capacitor bank and outgoing feeder, motor and generator.
 - ZIGZAG, NER, Battery, Battery charger ...etc. calculation.
 - Low Voltage Cable sizing calculations, AC Single Line Diagram, Auxiliary Transformer Sizing.
 - DC Battery Sizing Calculation, DC Cable Sizing Calculation, and DC Single Line Diagram.
 - Heat dissipation calculation.
 - High Voltage and Medium voltage cable Sizing Calculation.

- Dates** : From Jan. 2015 till Mar. 2017
- Employer** : Jawda Engineering Consultants (JEC)
- Job title** : Senior Electrical Design Engineer (Protection and Control Engineer)
- Job Description** :
- Full substation drawings interfacing, cable schedule and final termination.
 - Relay setting calculation Diagram for overhead line, transformer (main and auxiliary), bus coupler (HV), bus section, capacitor bank and outgoing feeder, motor, generator and over current coordination for all Manufacturer (ABB, Siemens, Alstom....etc.).
 - Design of SAS, SCADA, SOE, TFR and Annunciation systems.
 - CT/VT sizing and adequacy calculation.
 - Design Interlock Block Logic Diagram for all circuit breaker, disconnecting switch and earthing switch.
 - Design Protection Single Line Diagram for overhead line, transformer (main and auxiliary), bus coupler (HV and MV), bus section, capacitor bank and outgoing feeder, motor and generator.
 - Review and revise Manufacturer (ABB, Siemens....etc.) Base Design.

- Reviewing of Manufacturer Relay & Control Panels such as Line, Transformer, Busbar, Capacitor, Bus Coupler / Section, Under-voltage / Under-frequency Load Shedding, Revenue / Energy Metering, Dynamic System Monitoring (DSM), Power Factor & Maximum Demand Recording, Synchrocheck.
- Reviewing Manufacturer Offers & Project PTS (Project Technical Specification).
- Modifications for all Remote Ends.
- Low Voltage Cable sizing calculations, AC Single Line Diagram, Auxiliary Transformer Sizing.
- DC Battery Sizing Calculation, DC Cable Sizing Calculation, and DC Single Line Diagram.
- Heat dissipation calculation.
- High Voltage and Medium voltage cable Sizing Calculation.
- Lighting System Layout and Lighting Calculation (indoor and outdoor).
- Earthing calculation.
- Good information about layout design, cable tray system and shielding.
- Familiar with the International Standards IEC, BS, IEEE.
- Familiar with professional design software i.e. DOC, Ecodial, Dailux & ETAP.

Dates : From Dec. 2013 till Dec. 2014
Employer : KAIZEN GROUP
Job title : Electrical Design Engineer (power distribution system)
Job Description :

- Designing of power systems MV/LV for infra and buildings projects.
- Production of single line diagrams, load flow calculations, short circuit calculations, Power Tr. Sizing.
- MV/LV cables sizing, Cables routings design.
- Normal/Emergency Lighting design, small power system.
- Ring main unit and medium voltage switchgear sizing.
- Load Estimation.
- Power Factor Correction Calculations.
- Design power distribution panel (MDP, SMDP).
- Fire alarm and Telephone system design.
- Preparation of BOQ.
- Familiar with the International Standards IEC, BS, IEEE.
- Familiar with professional design software i.e. DOC, Ecodial, Dailux & ETAP.
- Very good knowledge of drafting software AutoCAD.

Dates : From Jul. 2009 till Nov. 2013
Employer : Bahrawy Consultancy Group (B.C.G.)
Job title : Electrical Protection Substation & Power Distribution System Design Engineer
Job Description :

- Design Protection Single Line Diagram for overhead line, transformer (main and auxiliary), bus coupler (HV and MV), bus section, capacitor bank and outgoing feeder, motor and generator.
- Design Interlock Block Logic Diagram for all circuit breaker, disconnecting switch and earthing switch.
- CT/VT sizing and adequacy calculation.

- Making Low Voltage Cable sizing calculations, AC Single Line Diagram, Auxiliary Transformer Sizing.
- Making DC Battery Sizing Calculation, DC Cable Sizing Calculation, and DC Single Line Diagram.
- Making High Voltage and Medium voltage cable Sizing Calculation.
- Design of SAS, SCADA, SOE, TFR and Annunciation systems.
- Full substation drawings interfacing, cable schedule and final termination.
- Familiar with the International Standards IEC, BS, IEEE.

Substations I worked on:

- Future Egypt substation 220/66/22KV, Egypt.
- Future Egypt substation 66/22KV AIS, Egypt.
- Gable Al Galal substation 220/22KV, Egypt.
- Sharm El-Sheikh PV solar plant 5MW, Egypt.
- Alwoaslia substation Western area, KSA.
- Muna-4 substation Western area, KSA.
- AlNahda substation central area, KSA.
- Almaazlia substation central area, KSA.
- Alindustrial substation central area, KSA.
- Alkharj substation central area, KSA.
- AL-KHOZAMA substation central area, KSA.
- DAHRT LABAN substation central area, KSA.
- AL-NARJIS substation central area, KSA.
- Qairwan substation central area, KSA.
- Bir Ben Hirmas substation Western area, KSA.
- Tabuk-12 substation Western area, KSA.
- Alazizia substation Western area, KSA.
- Badi substation central area, KSA.
- Al Dawadmi substation central area, KSA.
- Durma substation central area, KSA.
- New industrial substation central area, KSA.
- Muzahmia substation central area, KSA.
- Mequoa substation Eastern area, KSA.
- Adam substation Western area, KSA.
- Al-Litha substation Western area, KSA.
- Mashar substation Western area, KSA.
- Baraka substation Western area, KSA.
- ICY extension substation Western area, KSA.
- Nemaha substation South area, KSA.
- 301 substation AMR system.