

Holds a B. Sc. in Electrical Power & Machines Engineering and is looking to gain experience in his field of education.

PERSONAL DATA

Nationality : Egyptian
Birth Date : 06/10/1995
Gender : Male
Marital Status : Single
Residence : Beni Suef

EDUCATION

: B. Sc. in Electrical Power & Machines Engineering, Helwan University, 2019

LANGUAGES

Arabic : Native Language
English : Very Good

COMPUTER SKILLS

: Windows, MS Office (Word, Excel, Power Point), Internet
: AutoCAD
: Lighting calculations (Calculux & Dialux)
: Matlab
: ETAP

TRAINING COURSES AND CERTIFICATIONS

: AutoCAD
: Power System Distribution (level 1) (Jul. 2018).
: Power System Distribution (level 2) (Aug. 2018).
: Fundamentals of classic control circuits for three phase induction motor (Jul. 2017).
: PLC basic & advanced programming.
: SCADA system & HMI programming.
: Training at TITAN Cement Company (Electrical Maintenance Dept.).
: Training at United Co. for projects & technical advices (Electrical Maintenance Dept.).
: Training at Upper Egypt for food industry (for 6 months after graduation).

Graduation Project:

Design of electrical systems for city:

- Electric distribution system for administrative building.
- Load estimation.
- Lighting by using DIALux.
- Short circuit and voltage drop calculation.
- Panel schedule and cable sizing by using Excel.
- Single line diagram using AutoCAD.

Skills:

- Technical knowledge of electrical / control / automation engineering.
- Prior experience working with field personnel in maintenance and troubleshooting activities.
- Experience using AutoCAD for generating and modifying electrical schematics.
- Experience with AutoCAD tool and Electrical Design.
- Knowledge and hands on experience of measuring Instruments.
- Knowledge of software and electrical testing standards.
- Distribution System:
 - Design of general, special, outdoor and façade lighting systems by dialux.
 - Distribution of power systems (sockets, disconnect switches and power outlets).
 - Air condition calculations (central-D.X unit-split unit).
 - Feeder data schedules.
 - Cable routing design.
 - Panel boards schedules.
 - Busbar trucking.
 - Transformer sizing and Selection.
 - Diesel generator sizing.
 - Uninterruptible power supply (UPS) sizing.
 - Design distribution board for group of motors.
 - Power factor calculation and capacitor bank design.
 - MV/LV single line diagram.
 - Feeding System (Medium voltage infrastructure).
 - Short circuit calculations.
 - Voltage drop calculations.
 - Earthing calculations.
 - Load Estimation.
 - Design of electrical system for hospital.
 - Design of electrical system for mall.
 - Design of electrical system for city.
- Control System:
 - Design control systems for three phase induction motors using classic control.
 - Design control systems for three phase induction motors using PLC programming.
 - The ability to read and interpret electrical drawings.

- The capability to carry out (reactive) breakdown work in a highly automated manufacturing environment an outstanding ability to diagnose and resolve problems to root cause.
- Electrical and computer control design.
- Design custom control systems per customer specifications.
- Requisition of instrumentation and electrical materials.
- Able to execute implementation plans.
- Ultimately be responsible for design of protection schemes for industrial and utility substation applications including one-lines, three-lines, AC/DC schematics, and relay setting.
- Work experience with PLC systems.
- Work experience with inverters.