

Ashraf Mahdi Elshaer | Senior Electrical Engineer

Location: Nasr City, Cairo, Egypt

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Professional profile

Highly motivated electrical engineer, previously I worked as an electrical engineer for about 8 years of experience in designing and working on LV & ELV systems for industrial, Oil & Gas, residential & commercial projects.

Software skills

- | | | |
|-----------------------|-------------------------------|----------|
| ● AutoCAD | ● MS-Visio | ● SAP |
| ● Revit MEP | ● Ecodial (Power Calculation) | ● Cadnaa |
| ● Dialux & Dialux-Evo | ● Cadnaa (Sound Coverage) | |
| ● MS-office | ● CYM (Earthing mat design) | |

Professional Experience

Senior Electrical Engineer

Elsewedy Electric Corporate

Mar.2018 – May 2020

Key responsibilities

- Prepare Installation Drawings for all required electrical power & control systems.
- Review all the Electrical drawings to ensure the drawings can be understood easily by the workshop electricians.
- Inspect delivered materials and ensure technical and quality specification.
- Ensure all designed electrical systems are subjected to standards & as per manuals recommendations.
- Prepare troubleshooting documents & follow-up in workshop to find faults.
- Provides technical and engineering support and guidance to site/erection teams - if required.
- Share all required documents with sub-contractors & follow-up to expedite execution process.
- Usual follow-up with owner representative & sub-contractors for clearance & expedition purpose.
- Reviews and comments on supplier information and assists with inspection and testing.
- Preparing SLD diagrams, Wiring diagrams & Interconnection Terminal Block Diagram.
- Preparing typical & detailed drawings for all required electrical systems.
- Preparing list of materials, B.O.Q & purchasing requests using SAP software.
- Earthing Resistance & soil resistivity measurements using [Fluke 1625-2 GEO Earth Ground Tester].
- Installation drawings for lightning protection systems.
- Lightning Calculations using [IEC.62305 Standard].
- Lighting, Power installation & Lighting calculations [Interior & Exterior].
- Applying factory acceptance test (FAT) in workshop.
- Help project manager to plan the project & provide him with all required data/information to ensure contractors packages are placed on time & meet cost management plan.
- Applying Monitor & control process methodology to meet time schedule completion of all designing, Execution & closing of the project within the predefined budget.
- Supervising a team of engineers & draftsmen to ensure quality as per our standard.

Achievements

- I was awarded as an employee of the month after 2 months due to adding a new technique to accelerate documents generation that cause reducing working hours down to 80%.
- Worked on a presentation for a bidding in ITS project, a mega project in Egypt with a total cost \$320 M using google earth, Fillmora & AutoCAD with Zero Bidding cost, the presentation helped us land the project bidding.

Project samples

- Duqm Refinery Project (Oman)

Electrical Engineer

Asec Automation (Citadel Corporate) – EPC

April 2015 – Mar.2018

Key responsibilities

- Prepare Installation Drawings for all required electrical power & control systems.
- Review all the Electrical drawings to ensure the drawings can be understood easily by the workshop electricians.
- Inspect delivered materials and ensure technical and quality specification.
- Ensure all designed electrical systems are subjected to standards & as per manuals recommendations.
- Prepare troubleshooting documents & follow-up in workshop to find faults.
- Provides technical and engineering support and guidance to site/erection teams - if required.
- Share all required documents with sub-contractors & follow-up to expedite execution process.
- Usual follow-up with owner representative & sub-contractors for clearance & expedition purpose.
- Reviews and comments on supplier information and assists with inspection and testing.
- Help project manager & Team lead to plan the project & provide him with all required data/information to ensure contractors packages are placed on time & meet cost management plan.
- Applying Monitor & control process methodology to meet time schedule completion of all designing, Execution & closing of the project within the predefined budget.
- Preparing drawing & engineering documents for both base & detailed design stages (ex: Bill of materials, block diagrams, functional design specifications, datasheets, power consumption, general arrangement & wiring diagram) for PAGA system.
- Preparing comment resolution sheet (CRS).

Project samples

- | | |
|------------------------------------|----------------------------|
| ● Cemex cement plant (Philippines) | ● Ain el-kebira (Algeria) |
| ● Titan el max (Egypt) | ● Iligan DCS (Philippines) |

Senior Electrical Technical office Engineer

Environmental engineering experts' (Consulting office)

Jul 2014 – Apr 2015

Key responsibilities

- Prepare Shop drawing for both LV & ELV Systems including design drawings.
- Cable routing design & cables arrangement sectional views
- Voltage drop, Short circuit study & Cables sizing
- Lighting, installation & Lighting calculations [Interior & Exterior] Using Dialux software
- Power system installation, Load schedules and Single line diagrams
- Concept design for Fire alarm system using [NFPA-92 Code]
- Concept design for Low current systems [Tel, Data & CCTV] & Riser diagrams
- Concept design for earthing system & lightning protection System
- Typical detailed drawings for all above systems

Project samples

- Water supply Treatment plant (Basrah, Iraq)

Electrical Design Engineer

Mimar for engineering design & project management (Consulting office)

Feb 2013 – Jul 2014

Key responsibilities

- Prepare Shop drawing for both LV & ELV Systems including design drawings.
- Cable routing design & Cable trays sizing
- Voltage drop, Short circuit study & Cables sizing
- Lighting calculations [Interior & Exterior]
- Lighting installation systems layouts
- Power service system layouts, Load schedules, and Single line diagrams

- Fire alarm system design using [NFPA-92 Code]
- Load estimation & transformers sizing
- Power factor correction & determine capacitor bank capacity

Project samples

- Wastewater Treatment Plant (Jeddah, Saudi Arabia)
- Sanabel Al Khair Hotel (Mekkah, Saudi Arabia)
- AL-Thumamah (MAWTEN) District land Development (Saudi Arabia)

Education

Bachelors of Science in Electrical Engineering, Power Systems & Machines Dep., University of Tanta, 2012

Languages

- Arabic: Native Tongue
- English: Very good