

**104663-ELE-DE-E-2005**  
**Senior Electrical & Instrumentation Engineer**

Holds a B. Sc. in Industrial Electronics & Control Engineering and has about 12 years hands-on experience working in design and technical office.

## PERSONAL DATA

Nationality : Egyptian  
Birth Date : 17/11/1983  
Gender : Male  
Marital Status : Married  
Residence : Cairo

## EDUCATION

: B. Sc. in Industrial Electronics & Control Engineering, Menoufia University, 2005

## LANGUAGES

Arabic : Native Language  
English : Very Good  
French : Fair

## COMPUTER SKILLS

: Windows, MS Office (Word, Excel, Access, Power Point), Internet  
: AutoCAD  
: Short circuit and load flow calculation by ETAP  
: Lighting calculation by Dialux  
: Ecodial Program for Schneider

## TRAINING COURSES AND CERTIFICATIONS

: PMP (Project Management Professional) preparation course and preparing to get PMP certified.  
: Autodesk MEP Revit with certificate of completion No. (1VXFMIHJP3).

## CHRONOLOGICAL EXPERIENCE RECORD

**Dates** : From Dec. 2015 till now  
**Employer** : SNC Lavalin Egypt  
**Projects** :

- Henkel factory (Egypt)
- Edita E08 factory (Egypt)

- Fire fighting and fire alarm for Edita factory E06 & E10 (Egypt)
  - Heinz Kraft factory (Egypt)
  - Fire fighting and fire alarm project for Heinz Kraft factory (Egypt)
  - Mina Zayed District Cooling Plant (UAE)
  - NCIC – RO Plant (Egypt)
  - King Khaled airport District Cooling Plant (KSA)
- Job title** : Senior Electrical & Instrumentation Engineer
- Job Description** :
- Management of the design process and oversee for all works provided by junior's engineers.
  - Developing project from concept design to completion.
  - Preparing technical specifications, bill of quantities (BOQ) and tender documents and drawings
  - Coordination with other disciplines to meet the client requirements according to approved codes and standards.
  - Preparation of Preliminary estimation, Budget estimation and detailed estimation.
  - Preparing value engineering studies based on client's budget constraints.
  - Review shop drawings, composite drawings and material submittals.
  - Oversee for all works of junior engineers in site.
  - Manage and supervise for all subcontractor works.
  - Generate technical and commercial report for each Item before releasing the final PO.
  - Releasing all process concerned to E&I PO's items.
  - In addition preparation of the following during studying the project:
    - Preparing load estimation, Single Line Diagram and Schematic wiring Control for LV panels.
    - Preparing the design of lighting and power systems including lighting calculation with Dialux software.
    - Preparing load flow and short circuit study using ETAP software.
    - Review the selectivity study for all incoming/outgoing in SLD.
    - Preparing all calculation related to transformer sizing, generator sizing and UPS sizing.
    - Preparing MV/LV Cable Schedules.
    - Preparing cable routing layout.
    - Light Current System design.
    - Earthing and lightning System.
    - Provide Shop drawing for the project.
    - Preparing instrumentation list, instrumentation data and hookup drawing.
    - Interconnections diagram and I/O's list.
    - Provide project specifications for electrical and light current items referring to standards and local codes.
    - FAT Test for Cables, MCC, Switchgears...etc.
- Dates** : From Mar. 2014 till Dec. 2015
- Employer** : Hassan Allam Sons Company (HAC)
- Projects** :
- Aswan Hear Medical Center (Egypt)
  - Katamyra Airport (Egypt)
  - Military buildings (Egypt)
  - Zewail City for technology (Egypt)

- Zewail University (Egypt)
- Booster and Intake Pump Station in 6th October City (Egypt)
- Aircraft maintenance Hanger (Egypt)
- Cairo Festival City Park C (Egypt)
- Ismailia Water treatment plant (Egypt)
- Aswan PV Project (Egypt)
- Edita factory E08 (Egypt)
- Abo Owikal Water treatment 1,000,000 m3/day (Egypt)
- Kemya Factory (KSA)
- King Khaled Medical Center (KSA)
- Construction Facilities for Khurais with Aramco (KSA)
- Salwa compound with ABV rock (KSA)
- MOI-South Borer Residential Project (KSA)
- Sabic Al-Matrafiah Housing Project (KSA)
- Annaba Factory (Algeria)

**Job title** : Senior Electrical & Instrumentation Estimation & Design Engineer in Egypt, KSA and North Africa Countries

**Job Description** :

- Review of Invitation to Tender (ITT) documents, understanding, analyzing and accurately assessing all ITT requirements.
- Involvement in the development of the proposals strategy for the tender.
- Co-ordination, preparation and compilation of complete compliant and professional proposal documentation for both technical and commercial for submission to clients in line with client bid documents and tender deadlines.
- Management of the estimating process and oversee on juniors estimators involved in the preparation of base cost estimates, to ensure accuracy, professionalism and timely completion.
- Liaison with internal departments to ensure that all relevant input received is compliant with ITT requirements.
- Preparation and issue to client of appropriate and concise commercial and technical requests for clarification to client during the tender period.
- Assisting in the preparation and compilation of contract documents, prior to signature, ensuring that all contract documentation is in line with all previously agreed tender negotiations.
- Receiving and understanding post-contract feedback obtained from executed projects for use in future bid efforts.
- Reviewing all contractual documents related to the tender and negotiate with the client about any unsuitable clauses.
- Complying with Health, Safety and Environmental policies and procedures and compliance with all audits and inspections.
- Carrying out Value engineering (VE) studies Based on Clients budget constraints.
- Follow up and Receive Quotations from Various Suppliers and Evaluate the supplier Quotation compared with the Project Requirements (Best Pricing and Technically accepted Materials According to Specifications).
- Review Sub-Contractors Financial and Technical Offers and Comprise between them.
- Break down and estimate the cost related to a project including materials, labor, equipment, subcontractors, indirect cost, taxes, insurance, markup and any additional cost that may affect the project.
- Negotiation with different suppliers to obtain the maximum benefit for the company.

- In depth knowledge of LV distribution schemes and MV distribution schemes, elements and design aspects.
- Quantity survey if needed.
- Providing technical support and advice with a view to developing efficient Study for the Projects.
- Sending enquiries and obtaining prices, analyze prices, prepare material and labor cost estimation and bid price.
- Conducting negotiations, Identification of cost or pricing data submitted during the negotiations and relied upon in reaching a settlement.

**Dates** : From Sep. 2007 till Feb. 2014

**Employer** : METITO WATER TREATMENT Company

**Projects** :

- Power Plants:
  - El Tebeen (Egypt)
  - El Atf (Egypt)
  - Sidi Krir (Egypt)
  - Cairo West (Egypt)
  - Damietta Project (Egypt)
- Surface Water Plants:
  - 6th October Station (Egypt)
  - Gezert El Dahab (Egypt)
  - El Fostat (Egypt)
  - Embaba (Egypt)
  - Sohag Project (Egypt)
  - Kissir Project (Algeria)
  - Ghat Projects, 5 Stations (Libya)
  - Wadi El Shataa Projects, 19 Stations (Libya)
  - Merzek Projects, 5 Stations (Libya)
  - Zouerate Project with 11 pumping station (Mauritania)
- STP & Sewage Plants:
  - El Tour Project (Egypt)
  - Kafr El Khadra Project (Egypt)
  - El Tal El Kebeer Project (Egypt)
  - Quesna Project (Egypt)
  - Razeen Project (Egypt)
  - Emiay Project (Egypt)
  - Samnoud Project (Egypt)
  - Helton Sharks Bay (Egypt)
  - El Sonbat STP Plant (Egypt)
- RO Plants:
  - Neama View (Egypt)
  - El-Malkia (Egypt)
  - Porto Sokhna (Egypt)
  - Nabq (Egypt)
  - Sawany Samlous (Egypt)
  - Melia Pherohs (Egypt)
  - Fellalen Station (Libya)
  - Touggourt Project (Algeria)
- Oil & Gas Projects:
  - Khalda Project (Egypt)
  - El Zawya Project (Libya)

**Job title** : Senior Electrical & Instrumentation Engineer in Egypt, North Africa Countries

- and South Africa
- Job Description** :
- Design according to International standards and codes of practice (IEC, ISA, NEC and ATEX) and Egyptian code.
  - Provide technical support for troubleshooting of problems at running plants, commissioning and construction activities.
  - Ensure technical integrity of the power generation and Distribution systems.
  - Review & update the plant's operation, control & maintenance philosophies / procedures in accordance with the business needs and safety standards.
  - Evaluate spares consumption & requirement and help field staff in inventory optimization.
  - Perform reliability & availability analysis and suggest Improvements Assist.
  - Development of projects & contracts scope of work supply, Tender documents, selection of vendors & contractors.
  - Mange all sub contractor works.
  - Preparing Estimated cost sheet for the project.
  - Releasing POs, RFQ and reviewing supplier's offers Technically and Commercially.
  - Have good experience in internal codes for KSA, Egypt and North Africa countries.
  - In addition preparation of the following during studying the project:
    - Preparing Load List, Single Line Diagram and Schematic wiring Control for LV panels.
    - Selecting the suitable transformer and generator for project.
    - Design LV and MV switchgear.
    - Preparing MV/LV Cable Schedules.
    - Preparing cable routing layout.
    - Internal & External lighting design.
    - Light Current System design.
    - Earthing and lightning System.
    - Provide Shop drawing for the project.
    - Instrument Data sheets & Hookup Drawing.
    - Interconnections diagram and I/O's list.
    - Electrical BOM's, Purchase Requisition, Quote reviews, PO. Finalization, Interaction with various other disciplines, participation in internal & Assistance at field for installations & pre-commissioning.
    - FAT Test for Cables, MCC, Switchgears...etc.
    - Providing technical submittals for E&I works.
    - Providing estimated cost sheet for Tenders in Egypt, North Africa countries, Sudan and Mauritania.
- Dates** : From Sep. 2005 till Sep. 2007
- Employer** : DIB Egypt Company
- Job title** : Electrical Maintenance Engineer
- Job Description** :
- Electrical maintenance for machines.
  - Design and execute control panels using plc units.
  - Design distribution panels.