

**105581-ELE-D-E-1998**  
**Principle Electrical Design Engineer**

Holds a B. Sc. in Electrical Power & Machines Engineering and has over 19 years hands-on experience working in design field.

## PERSONAL DATA

Nationality : Egyptian  
Gender : Male  
Residence : Nasr City, Cairo

## EDUCATION

: B. Sc. in Electrical Power & Machines Engineering, Ain Shams University, 1998

## LANGUAGES

Arabic : Native Language  
English : Good

## COMPUTER SKILLS

- : Windows, MS Office (Word, Excel, Power Point), Internet
- : Excel VBA Language
- : MS Project
- : Solid experience in using the following specialized design engineering programs:
  - AutoCAD with Tool Pac and Express Tools Packages
  - Autodesk Revit - 2016
  - Philips lighting design program (Calculux ver.4.5) (Indoor, Road, Area)
  - Dialux lighting design program (Dialux ver. 4.70)
  - WILLA, TARGETTI and ERCO Lighting Programs
  - Three Brother lighting design program
  - Schreder lighting design
  - Luxicon security lighting program
  - Saudi lighting program (SLC)
  - Programs for cable sizing, short circuit current and many more calculations (Docver.020d, DOCWIN)
  - Programs for Network Simulation, Load flow, transmission line design, short circuit current, and many more calculations (ETAP- Ver.7)
  - Schneider electric group program for power calculations (Ecodialver.3)
  - ONAN program for generator size (Gensize)
  - BLCC program (Building Life Cost Cycle ver.5.2)
  - Furse Lightning protection check program according to (BS-6651)
  - Potential Grading Design for Electrical Substation Earthing programs

- (IEEE-Std 80)
- Earthing Calculations

## TRAINING COURSES AND CERTIFICATIONS

- : Consultant Electrical Engineer certified by the Egyptian Engineers Syndicate (2014).
- : Special Training for "Cathodic Protection system" (ECG) (2017).
- : Special Training course for "Revit 2013" (ECG) (2013).
- : Training course for "Engineering Design Management" (EGEC - Engineering House of Expertise) (2011).
- : Training course for "AutoCAD 2002" (Kemet - AutoDesk Co. Cairo) (2003).
- : Training Centre for "Electrical & Mechanical Power", Cairo North Power Station (Shoubra El-Kheima) (1997).
- : Training Centre for "Electrical & Mechanical Power", Cairo West Power Station (Saeel - Giza) (1996).
- : El-Nasr For Glass & Pallor Company (Mostorod - El-Kalyobia) (1995).

## CHRONOLOGICAL EXPERIENCE RECORD

- Dates** : From 2012 till now
- Employer** : Engineering Consultants Group (ECG)
- Projects** :
  - Emaar-Marassi Urban development (North Coast - Egypt) - Parcel R1 (Residential and Hotels)
  - Emaar-Marassi Urban development (North Coast - Egypt) - Greek Village (Residential and Hotels)
  - Emaar-Marassi Urban development (North Coast - Egypt) - Infrastructure works (Commercial Area)
  - Industrial zone Infrastructure networks – Al Ain Al Sokhna
  - Cairo Airport Terminal 2 & 3 power plants AVR design
  - Cairo City Centre Building Assessment Report
  - Establishing of Suez Power Plant – Capacity 650MW – Suez (Design & Shop Drawings)
  - King Abdulaziz International Airport (KAIA) – Jeddah – KSA (Shop Drawings for Orascom)
  - Same - Mwanga - Korogwe Water Supply Project (Tanzania)
  - Etisalat Misr New Premises (Smart Village)
  - Magrabi Medical Center in Muscat
  - Universal Group Office Building – 6 October
  - Magrabi New Hospital in Tanta
  - Clean Fuels Project At Mina Al Ahmadi (Maa) & Mina Abdullah (Mab) Refineries – Kuwait
  - Office/Factory Building, Mesaieed, Marking Services Incorporation – Qatar
  - Amer Group New Head Quarter (Al Sheraton – Cairo)
  - Porto 6 October security networks - Amer Group (6 October)
  - Siemens new blade Factory (Al Soukhna - Egypt)
  - Al-Ajami club and hotel for Cairo police – Alexandria
  - Prepared and participated in many office proposals for projects (technical and financial offers)

**Job title** : Principle Electrical Design Engineer  
**Job Description** : Responsibilities include acting team leader, including management, supervision and coordination of the electrical design activities and team as assigned to the project, as well as reviewing and carrying out all conceptual, elementary and detailed design deliverables of all electrical systems for a number of different projects in the Middle East. Including the preparation of design, detailed engineering and issuing tender documents for projects. In addition to attending Client and Project meetings to clarify, verify, support, coordinate and also carried out and participating in a number of proposals, schedules and work procedures, tender and contract documents for a number of projects, in addition to preparing shop drawings according to the approved design and material submittals for many projects.

**Dates** : From 2011 till 2012  
**Employer** : WorleyParsons (International Oil - Gas & Power Company), Bahrain  
**Projects** :

- Tatweer Petroleum Project
- Water Treatment Plant (WTP-01, 05 and 06)
- High Pressure Pumping Station (HPPS-01, 04 and 06)
- Site Investigation for 33KV Overhead Transmission Line (OHTL)
- Preparing design concept for the 33KV Overhead Transmission Line (OHTL)
- Many Medium/low voltage electrical substations complete design

**Job title** : Senior Electrical Engineer  
**Job Description** : Duties included managing, supervising and coordinating of the electrical design activities and a team of 5 Engineers, as well as reviewing and developing as needed, all conceptual, preliminary and detailed design deliverables of all electrical systems for different sites in the project. Detailed engineering and issuing drawings for different sites.

**Dates** : From 2010 till 2011  
**Employer** : Engineering House of Expertise (EGEC)  
**Projects** :

- Cultural Al Souk Complex–Senior Electrical Engineer (the complex contains five Villas, Three Hotels, Two Apartment buildings, Mall, Main Kitchen, Mosque and Auditorium with main two Basement floors) (UAE)
- Cardiac and Orthopaedic (French-Germany) Hospital (Cairo) – Senior Electrical & Project Engineer
- Ras tromby Village Infrastructure Networks (Power, Electrical Substations, Street Lighting and Low Current) (Marsa Alam)
- Water and Water Treatment Plants (KSA – Altaif)
- Umm Al Qura Village Infrastructure Networks (Power, Electrical Substations, Street Lighting and Low Current) and Cost Pricing (KSA)
- Al Khafj Project – Shop Drawings and Design Review (KSA – Al Khobar)
- Wadi Al Nile Hospital – extension – design review and shop drawing (Egypt)
- SIANCO Factory for Natural Gas (Egypt).
- Al Noor Hilton Hotel fire alarm system design and construction supervision
- Sheraton Dreamland Hotel (Cost reduction and design review)
- Roshan Mall (KSA – Jeddah) (Cost reduction and design review)

- Sary Mall ( KSA – Jeddah) (Cost reduction and design review)
  - Many Medium/low voltage electrical substations complete design
  - Prepared and participated in many office proposals for projects (technical and financial offers)
- Job title** : Senior Electrical Design Engineer
- Job Description** : Responsibilities included being responsible for one of the department's electrical team, including managing, supervising and coordinating all team activities, as well as handling all conceptual, preliminary and detailed design deliverables of all electrical systems for different projects in the Middle East. Including the preparation of design, detailed engineering and issuing tender drawings for different projects. In addition to attending Client and project meetings to clarify, verify, support, coordinate and communicate electrical assumptions and electrical design / work for the project with other disciplines and / or Client. Also carried out and participating in a number of proposals, schedules and work procedures, tender and contract documents for a number of projects.
- Dates** : From Nov. 2007 till Apr. 2010
- Employer** : Drake & Scull International Egypt  
(UAE Contractor Company located in Cairo)
- Projects** :
  - Wahah Al Khartoum Project (Sudan – Khartoum) – 12MVA
  - Al Rahmah International Hospital (Egypt - Ismailia Road) – 10MVA
  - Santa Maria Residential Complex (Egypt - Alex. Road) – 8 MVA
  - Al Bohra Hotel Project (Cairo - Egypt) (Design)
  - Al Madinah Hotel LAMI-500 m2 (KSA - Al Madinah Al Mnawara) (2 MVA)
  - Al Madinah Hotel LAMI-1000 m2 (KSA - Al Madinah Al Mnawara) (4 MVA)
  - Al Said Hotel (Khartoum – Sudan) (2 MVA)
  - Al Rawdah Super Market (BANDA) (KSA – Jeddah – Al Rawda)
  - Al Fahd Super Market (BANDA) (KSA – Jeddah – King Fahd Street)
- Job title** : Senior Technical Office Engineer
- Job Description** : Duties included being responsible for the design and/or redesign of electrical works, preparing, issuing and reviewing of tender and electrical shop drawings and documentation (design criteria, specifications, bill of quantities, etc.), attendance of electrical equipment witness tests, preparing all field status reports and reviewing material submittals for a number of the Company's local and international projects. In addition to the supervision of construction of the electrical installations and low-current systems, including the approval of contractors' submittals for equipment, materials and shop drawings, review of construction programs, approval of payment certificates, testing, commissioning and final handing over of the project.
- Dates** : From Jul. 2000 till Aug. 2007
- Employer** : Al Estsharyoon Zuhair Fayez & Associates
- Projects** :
  - Ministry of Metallurgy Head Quarter Building (KSA - Jeddah) (8MVA)
  - Ministry of Transportation Head Quarter Building (KSA - Jeddah) (10MVA)
  - Sheikh Sultan Al Athel Residence Compound (KSA - Al Riyadh) (3MVA)
  - Saudi Arabia Ambassador Residence in Cairo (Egypt - Cairo - Al Zamalik) (Complete Redesign and renovation of KSA Ambassador Residence)

- Prototype of Airport Observatory Building (KSA) (Project design works as for a Prototype Building)
- Al Wallan Mall and commercials (KSA - Al Riyadh) (4MVA)
- Prince Mohamed Bin Fahd University (KSA - Al khobar) (10MVA)
- Armor and ammunition sites in KSA (KSA)
- Jeddah Main Fruit and Vegetable Market (KSA - Jeddah) (12.5MVA)
- Correction Facility Project (KSA - Jeddah) 13.8KV Medium tension network design (8 loops with 53 transformers) (53MVA)
- Building of Royal Naval Force (KSA – Royal Naval Force – Riyadh). (5MVA)
- Administration & Commercial Center for Al-Aziziah Water Supply (KSA - Jeddah) (3.5MVA)
- Diagnosis & Rehabilitation Center (KSA – Ministry of Education – Riyadh) (3MVA)
- Regional Passport Bureau (KSA – Ministry of Interior – Buryadaha) (2MVA)
- Drug Enforcement Division (KSA – Ministry of Interior) (3MVA)
- High Way Security Force Command (KSA – Ministry of Interior)
- Investigation Authority Branch Region (A) (KSA – Ministry of Interior)
- 500 Bed Hospital (KSA)
- Administration Branch (Mujahedeen General Directorate) (KSA – Ministry of Interior)
- Regional Principality Complex (KSA – Ministry of Interior) Project design works (lighting, power, fire alarm, telephone, MATV systems) (4MVA)
- Al-Nakheel Guest Villa (KSA – Private Villa – Riyadh)
- KINDDOM OF SAUDI ARABIA – Ministry of Interior (MOI):
  - Adapt many sites in new locations in the Kingdom and make all necessary new planning and calculations for changes in site area, HVAC & Plumbing new electrical loads changes.
  - Prepare many bills of quantities and technical specifications.
  - Preparing Life Cost Cycle Study for some projects.

**Job title** : Senior Electrical Design Engineer

**Job Description** : Responsibilities included carrying out, issuing, reviewing and coordinating project design, tendering and project management of all electrical systems for projects in Saudi Arabia. Design responsibilities included setting up design concepts / design criteria; developing preliminary and detailed design drawings; and preparing technical specifications, bills of quantities as well as tender and contract documents.

**Dates** : From Jul. 1998 till Jul. 2000

**Employer** : Hamza Associates Consulting Engineering

**Projects** :

- El Arosa Tea Factory (El-Obour Branch)
- Mubarak Pumping Station Project (Toshka) Building design works (protective earthing and potential grading system using building piles & floor reinforcement steel Technique) for Pumping Station, 11KV and three workshops buildings according to: IEEE Std80:1986, IEEE Std 142:1991, BS Std 7430:1991 and NEC (NFPA-70)
- Hammamat Pharaoun Tourist Project
- Suez Canal University Project
- New Navigation Lock at Zifta Barrage
- Wadi El-Nakra Power Plant Project

- Mubarak TV Studio Complex Project (Media Production City - 6 October City)
  - AQWATAB Natural Water Factory
  - A number of private villas and residences
- Job title** : Electrical Design Engineer
- Job Description** : Duties included the design of electrical works, including indoor and outdoor lighting system, power, machines cable routing, light current networks, earthing and lightening systems...etc. In addition to issuing of drawings, specifications and bill of quantities for a number of the Company's major local projects.
- Field of experience** :
- Principle Electrical Engineer with certificate of Management from EGEC and Professional Consultant Engineer approval from the Syndicate of Engineers, Egypt. In addition to solid design, supervision and commissioning experience obtained through 15 years of work experience in a number of multi- national consultant and construction organizations.
  - Including Project Management / Coordination and Proposal Engineering skills acquired as part of my lead positions for several projects. Which has built my ability to encompass, integrate and manage inputs provided by various consultants and disciplines working on the project as well my ability in handling all liaison aspects among clients and the design offices.
  - Experienced in the design of all electrical systems, including but not limited to: Lighting systems (indoor/outdoor), lighting controls/dimming systems, power, cables, busway and raceways sizing, short circuit, voltage drop, panel load schedules, Earthing system calculations and lightning protection system risk assessment, Cathodic protection systems, fire alarm system, telephone, data, voice over IP, public address, nurse call, CCTV and security systems, infrastructure cabling and fiber optic networks.
  - Worked on variety of projects, including but not limited to:
    - MV & LV distribution networks.
    - Electrical substations.
    - Industrial facilities.
    - Oil & gas brown field services and Facilities.
    - Airports.
    - Water treatment plants.
    - Mixed-use complexes.
    - Residential Buildings.
    - Commercial Buildings.
    - Power generation systems Study.
    - Hospitals.
    - Recreational Facilities.
    - Resorts and Hotels.
    - Educational buildings and Site infrastructures.
  - Communicate electrical assumptions and electrical design / work for the project with other disciplines and/or Client.
  - Specific Technical Expertise:
    - Setting up design concepts; developing preliminary and detailed designs; preparing tender and contract documents including the preparation of technical specifications and bills of quantities.

- Establishing project delivery strategy and work with Job Managers in developing the job plan, quality plan, securing resources, establishing work briefs and budgets.
- Preparing Shop drawings.
- Establishing and satisfactory completion of the project with an emphasis on understanding client needs, the technical solutions and timely performance leading to client satisfaction.
- Coordinating and managing the Head Office back-up activities extended to resident site staff during the execution of several projects.
- Strong Computer skills and very good command of Microsoft Office applications, Electrical Power System Design Software's and Computer-Aided Design (AutoCAD, Revit, Navisworks) applications. In addition to a solid understanding, practical and flexible approach in conforming to both local and international codes & standards (IEC, EN, BS, IEE, NFPA, API, IEEE, ICAO, etc.).