

Holds B. Sc. and M. Sc. in Electrical Engineering, a Diploma in Project Management and a Diploma in Total Quality Management. Has about 14 years hands-on experience working in the oil & gas industry.

## PERSONAL DATA

Nationality : Egyptian  
Birth Date : 21/11/1980  
Gender : Male  
Residence : New Cairo

## EDUCATION

- : B. Sc. in Electrical Engineering, Ain Shams University, 2003
- : M. Sc. in Electrical Engineering, Arab Academy for Science and Technology (AAST)
- : Diploma in Project Management, Cambridge University
- : Diploma in Total Quality Management, American University in Cairo

## LANGUAGES

Arabic : Native Language  
English : Excellent  
French : Fair

## COMPUTER SKILLS

- : Windows, MS Office, Internet

## TRAINING COURSES AND CERTIFICATIONS

- : Conducted training in IHC GUSTO Engineering, and assisted the electrical design department with drawing work and various electrical design studies for a FPSO project, Schiedam, The Netherlands (summer 2002).
- : Conducted training in the E&I department of SBM Offshore Systems, Monaco, France (summer 2001).
- : Electrical Engineering courses:
  - Basic Electrical Control & Design.
  - System Grounding (Earthing).
  - Electrical Relays (Advanced Electrical Protection).
  - Solid State Relays & their applications.
  - Intelligent Control Systems.
  - Hazardous Area Classification.
  - Renewable Energy.

- Electrical Measurement systems.
- Digital Circuits Design.
- Process Control & Instrumentation systems.
- Power Systems Reliability.
- : Electrical Engineering Software:
  - ETAP (Electrical Transient Analyzer Program).
  - EDSA (for Electrical Power System Analysis).
  - SPEL (Smart Plant Electrical).
  - PDMS (Cable Tray module).
  - DIALUX (Lighting Calculation).
  - MATLAB Simulink program.
  - SMART PLANT 3D (Electrical Module).
  - Primavera.
  - MS Project.
- : Total Quality Management courses:
  - The Basic Six Sigma Breakthrough Improvement Process.
  - Statistical Quality Control.
  - Project Management.
  - Quality Systems Standards.
  - Managing the Quality Functions.
  - Planning for Top Quality.
- : Project Management courses:
  - Project Identification & Analysis (Unit 1).
  - Project Appraisal & Assessment (Unit 2).
  - Project Definition & Planning (Unit 3).
  - Financial Management & Approval (Unit 4).
  - Project Management & Implementation (Unit 5).
  - Project Closure & Handover (Unit 6).
- : Helicopter Underwater Escape Training (HUET).
- : Sea Survival Training.

## CHRONOLOGICAL EXPERIENCE RECORD

- Dates** : From Jun. 2014 till now
- Employer** : Wood Group
- Job Description** :
  - Offshore Maintain Potential Program (OMPP) (from Sep. 2015 till now):
    - ARBI 24/27 & HSBH 80/83 PDMs with associated pipelines and subsea cables: Prepared Issued for Bid (IFB) package and Issued for Award (IFA) package for 2 new PDMs that will be hook-up and tie-in to ARBI TP-1 and HSBH TP-2, and prepared MTO's for cost estimates.
    - Standardization of Gas Offshore Facilities, Production & SWOP Platforms: Provided Project Management Consultation (PMC) services for the development of Standardized Offshore Gas Facilities including Single Well Observation Platforms (SWOP) and Well Head Platforms (WHP) at Karan, Arabiya & Hasbah offshore gas fields to improve engineering, design, material procurement and installation cycles.
    - HSBH 64/67 PDM with associated Pipeline, Umbilical, Tie-In's & Hook-Up: Provided PMC services to develop Issued for Bid (IFB) package and CRPO planning package for contractors for new

- HSBH64/67, 4 well Production Deck Module (PDM) with associated pipelines and umbilical that shall tie-in and hook-up to HSBH Tie-In platform. Prepared Electrical Basis of Design, Cathodic Protection philosophy & calculation, electrical equipment sizing and Load lists.
- SPM Buoys Replacement at Juaymah Terminals: Provided PMC services to replace Single Point Mooring (SPM) buoys at Juaymah Terminals, to enhance the reliability of crude oil outlet by providing 4 new Catenary Anchor Leg Mooring (CALM) type buoys and cut-down on maintenance intervals and costs of overhauling the existing buoys.
  - Well Hook-Up & I-Field Installation at ABSF, SFNY, BRRI, MRJN, MHRH & ZULF Fields: Conducted offshore sites surveys to prepare various electrical engineering & design deliverables for electrified and non-electrified platforms including Scope of Work and Photovoltaic System sizing.
  - BRRI Pipelines Replacement: Prepared Grounding layouts and details for 11 pipelines replacement at BRRI field and Hazardous Area Classification schedules and layouts for the associated Topsides work.
  - General Engineering Services (GES+) (from Jun. 2014 till Aug. 2015):
    - JAZAN Industrial Support Facilities: Supervised a team of engineers and designers to design Fire Alarm and Detection systems in accordance with NFPA 72 for different types of buildings and reviewed various electrical deliverables produced by the team.
    - Abqaiq Plants: Assessed project requirements & provided recommendations to upgrade buildings for risk mitigation.
    - King Abdullah Sports City: Performed Power Generation and Distribution study, estimation of the Electrical Loads and sizing of Generators, Transformers and UPS.

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| <b>Dates</b>           | : | From Jul. 2007 till May 2014   |
| <b>Employer</b>        | : | CHICAGO BRIDGE & IRON (CB&I)   |
| <b>Job Description</b> | : | <ul style="list-style-type: none"> <li>• STATOIL Aasta Hansteen SPAR platform (from Jan. 2013 till May 2014): Assigned to CBI office in the Netherlands for the FEED &amp; Detailed Engineering phases. Prepared specifications and requisitions for various electrical equipment in accordance with Statoil &amp; IEC standards. Conducted Technical Bid Evaluation for electrical equipment. Reviewed Sellers' documents and electrical requirements in mechanical packages. Verified that engineering deliverables and equipment supplier deliverables are in accordance with Statoil Life Cycle Information (LCI) requirements. Carried out Power System analysis including Load Flow studies, Short Circuit studies, Motor Starting calculations and Harmonic Distortion calculations.</li> <li>• BP South Caucasus Pipeline Expansion (SCPX) project (2012): Lead a team of engineers to prepare the project deliverables using SPEL (consumers list, switchboards data list, cables &amp; cables drums schedules, etc) and electrical signals list. Prepared electrical specifications in accordance with BP Technical Practices. Prepared Single Line Diagram for 3.3kV Primary Substation that comprises 3 Main Generators of capacity 4750 kVA and 1 Emergency Diesel Generator of capacity 2300kVA.</li> <li>• Ningxia Baofeng Energy Group Co. / China Coal Yulin Energy &amp; Chemical Co. (2012): Lead a team of engineers and designers to</li> </ul> |

prepare Electrical Area Classification Studies (including Sources of Release List, Flammable Material List and Electrical Area Classification Layout) for Light Olefins Recovery Units (LORU) and Olefins Conversion Units (OCU) in accordance with API Recommended Practice 505 & NFPA 497.

- Cartagena Refinery (REFICAR) Expansion project (2012): Supervision and Manpower planning for different areas of the refinery to prepare Electrical designs, Electrical & Instrumentation MTO's and Lighting Calculations.
- Yamal LNG project (2011): Prepared Single line Diagrams for 110 kV Substation, and 35kV Main Utilities Substation. Carried out Load Calculations, Electrical Equipment Sizing and Cables sizing. Prepared cables lists and consumers' lists utilizing SPEL. Supervised designers to prepare models and drawings.
- OXY Elk Hills Cryogenic Gas Plant and Fractionation Facility (2011): Prepared Detailed Design deliverables for the project that comprised 500MW, natural gas fired, combined cycle facility, and modifications of the 115KV lines to 230KV double circuit overhead transmission lines for growing loads and tie-in to overhead lines.
- Aramco-Shoaiba Distribution Facilities (2010): Prepared Key Single Line Diagram, Overall Load List and Substation Layout for the Pre-FEED phase in accordance with Saudi Aramco Standards.
- VITOL VITTI Port Sadat Terminal (2010): Participated in the FEED for 1240MW gas fired plant to meet the power requirements of the project.
- BP Abu-Qir Electrical Upgrade project (2009): Carried out various electrical calculations which involve Short Circuit analysis, Load Flow analysis and Motor Starting analysis using EDSA program.
- Aardgasbuffer Zuidwending Gas Plant (2009): Prepared electrical calculations and specifications for the project which will create a new grass roots underground gas storage facility in the existing salt caverns located in the AKZO concession area near Zuidwending, in the Netherlands.
- Nagarjuna NOCL Refinery project (2007-2008): Assigned to CBI office in the Netherlands to assist the lead electrical engineer in the PMC of the project. The project was to reassemble a dismantled German oil refinery in Cuddalore, India.
- Miscellaneous Programs & Roles in CB&I:
  - Economical & Constructible Design Program: Participated in establishing & implementing the "Economical & Constructible Design Program" in CBI Cairo office to achieve proper quality control of design documents and assist the project team throughout the entire project cycle with the identification of construction considerations.
  - Lead Engineering Development Program: Completed the Lead Engineering Development Program for Lead Engineers in CB&I, to increase awareness of the Lead's responsibilities in Planning and Schedule Development and Maintenance, and the Lead's role in Progress Measurement and Change Management.
  - Future Focus Program: Participated in the "Future Focus Program" in Prague for lead engineers to enhance interface with different offices and departments, and increase knowledge of the operations in the different business sectors inside CB&I.
  - CB&I Management System (CMS): Assigned as the CMS focal

point in the electrical department and conducted CMS awareness sessions within the department to discuss with the team the policies, work processes, procedures, checklists, guidelines and specifications.

- Dates** : From Nov. 2003 till Jun. 2007
- Employer** : KELLOGG BROWN & ROOT (KBR)
- Job Description** :
- BP Saqqara Offshore Project (from Jun. 2005 till Jun. 2007): Assigned to KBR office in UK for the FEED phase. Delivered all aspects of the electrical engineering and design for the Detailed Engineering phase of a new offshore platform in the Red Sea, including the electrical tie-in study from the onshore power house.
  - BP / GUPCO Offshore Platforms Rehabilitation (from Nov. 2003 till May 2005): Performed Rehabilitation Studies for upgrading the electrical systems on various BP/ GUPCO offshore platforms in Ras-Shukier, The Red Sea. Conducted offshore site surveys, performed inspections on electrical equipment, gathered data from GUPCO's engineers and technicians at the sites and performed coordination with electrical subcontractors to prepare final reports and rehabilitation execution plans for replacements and upgrading the electrical systems.
- Field of experience** :
- Plan, direct, co-ordinate, and control the work.
  - Execute project in accordance with Corporate Practices and Project Procedures.
  - Reviewing and implementing Project Execution Plan that meets with Contract requirements.
  - Provide leadership and commitment to the Project HSSE and Quality plan.
  - Keeping to the control budget within the objectives established for the project.
  - Review engineering budgets and performance and initiate control measures.
  - Monitor and review Engineering Progress with Project Services and Engineering disciplines.
  - Document Lessons Learned and review/implement Lessons Learned from other projects.
  - Development of Project Schedules, Man-Hour budgets and Deliverables List.
  - Delivery of Approved for Construction (AFC) deliverables to meet fabrication schedule.
  - Integration of design schedule to procurement schedule.
  - Interface closely with client representatives to ensure client interests are being accommodated.
  - Review all engineering related Work Instructions / Variations.
  - Monitor change and assist with development of Design Change Notices (DCN's).
  - Monitor receipt and review cycle for vendor documents and identify any problem areas.
  - Prepare Contract Release Purchase Order (CRPO) Package for subcontractors.
  - Participate in HAZOP's, Design Reviews, Constructability Reviews &

Value Engineering sessions.

- Review Scope of Work for Tenders and Estimation of Man-Hours.
- Assist in developing bids for new work.
- Provide guidance to members of the team and mentor junior engineers.
- Involvement in development of staff and recruitment based on program requirements.
- Electrical Engineering / Design Responsibilities:
  - Power System Analysis.
  - Single Line Diagrams.
  - Hazardous Area Classification.
  - Lighting Calculations.
  - Electrical Schematic Diagrams.
  - Cable Schedules.
  - Electrical Load Lists.
  - Electrical Wiring Diagrams.
  - Cathodic Protection.
  - Electrical Equipment Specifications & Datasheets.
  - Power Generation & Distribution Studies.
  - Protection & Metering Diagrams.
  - Fire and Gas Detection.
  - Grounding and Lightning Protection.
  - Power Cable Trench Layouts.
  - Panel Schedules.
  - Electrical Equipment Sizing.
  - Electrical Block Diagrams.
  - Electrical Heat Tracing.
  - Technical Bid Evaluations of Electrical Requisitions.
- Knowledge of International codes and standards of IEC, IEEE, NEC, API and BSi.