

Holds a B. Sc. in Electrical Power Engineering and has about 18 years hands-on experience working in construction, design and technical office.

## **PERSONAL DATA**

Nationality : Egyptian  
Birth Date : 29/03/1976  
Gender : Male  
Marital Status : Married  
Residence : Cairo

## **EDUCATION**

: B. Sc. in Electrical Power Engineering, Ain Shams University, 1999

## **LANGUAGES**

Arabic : Native Language  
English : Good

## **COMPUTER SKILLS**

: Windows, MS Office, Internet

## **TRAINING COURSES AND CERTIFICATIONS**

: Project Management Professional (PMP #1518663).  
: Certified Cost Professional Course (CCP).  
: Lead Engineering Development Program.  
: Cost Estimation of Engineering Projects.  
: Time Management of Engineering Projects.  
: Maintenance and Protection of Electrical Networks.  
: SCADA & DCS systems.  
: Electric Motors and Generators.  
: Power Transformers.  
: Introduction and Implementation of Quality Management.  
: Systems Course (ISO 9001:2008).

## CHRONOLOGICAL EXPERIENCE RECORD

- Dates** : From Jun. 2016 till now
- Employer** : Eniprogetti-Egypt
- Project** : ZOHR DEVELOPMENT PROJECT, Egypt  
ZOHR Onshore is a development project aimed at producing natural gas from offshore reservoirs discovered in Egypt (operated by ENI). The business case of the project is the valorization of natural gas from straddling levels based on an initial development of the Gas Sweetening Plant composed of two onshore trains of 700 MMSCFD each, plus two after two years, with associated utilities, infrastructures and export to existing El-Gamil Plant.
- Job title** : Lead Electrical Engineer
- Job Description** :
- Participate, when appropriate, and contribute to near miss investigations by providing the technical expertise in the Electrical discipline.
  - Responsible for providing input into the technical content of Facility Modification Proposals enhancing the management of change process through the technical assurance route.
  - Responsible for review and approval of Safety System Changes within the Electrical discipline.
  - Participate in HAZOP's and HAZID's when required.
  - Focus on defect elimination from engineering design up to decommission stage as required.
  - Leadership in electrical safety engineering design, identifying discipline risks and ensuring that processes and capability is present to assess and drive down risk.
  - Support other Technical Departments in identification, design, validation and implementation of any engineered solution for the field.
  - Approve formally key engineering and operational documents in Company's Management System.
  - Validate enlisted Contractor's (engineering, construction, consultant etc) key technical deliverables (list, type and content).
  - Prepare On demand a compliance report on discipline specific systems and high level processes.
  - Participate in internal and external technical audits, taking part in incident investigations, pro-actively engaging in survey, assessment or analysis of any technical situation in the field.
  - Provide technical input on both contractor and consultant selection.
  - Manage external specialist consultant or contract support.
  - Represent Company on Industry Committees and specialist forums when they involve other oil and gas operators and/or legislative authorities.
- Dates** : From Jan. 2014 till Jun. 2016
- Employer** : ADCO PMC, Abu Dhabi – UAE
- Projects** :
- BAB INTEGRATED FACILITIES / 33KV BAB OHL NETWORK REPLACEMENT PROJECT, ADCO – UAE (Lead Electrical Engineer):
    - To create capacity for Th-H and Th-A new reservoirs to produce an additional 15 MBOPD each as part of the 1.8 MMBOPD building blocks.

- Installation and commissioning of NO. 4 HIGH VOLTAGE 220/33/11KV substations complete major electrical equipment such as (150/120 MVA power transformers – HV switchgears – HV MCC – power factor compensation units – HV VFD.....etc.).
- Replacement of overall 220 & 33KV OHL network of BAB are with lattice steel towers double circuit to sustain the required demand with all associated equipment such as (250 km 33KV OHL – 100 km 220KV OHL – Buffer transformers – power factor compensation units for 3.3KV NETWORK .....etc.).
- BFN CO<sub>2</sub> INJECTION PILOT PROJECT, ADCO – UAE (Senior Electrical Engineer): As part of UAE plans of reducing the CO<sub>2</sub> emission in the environment, ADCO intends to study the utilization of the recovered CO<sub>2</sub> gas (by MASDAR) by injecting into the BAB field reservoir. This EOR project is being launched as a pilot project aimed to gather the necessary technical data to assess CO<sub>2</sub> injection effectiveness in increasing oil recovery from BAB TH 'B' North oil reservoir. The outcome of the pilot project will be utilised to carry out feasibility of a full scale CO<sub>2</sub> EOR development in BAB.

<b>Job title</b>	:	Lead Electrical Engineer / Senior Electrical Engineer
<b>Job Description</b>	:	<ul style="list-style-type: none"> <li>• Manage, expedite, and support consultants' and contractor document submittals, budgets, and schedules.</li> <li>• Monitoring and Analysis of the contractor performance in scheduling, cost and budget forecasting.</li> <li>• Maintain and foster contacts with consultants, contractors, vendors, and material suppliers.</li> <li>• Serve as an interface between the Electrical Engineering team and internal clients, including the Construction, Operations, Environmental, Health &amp; Safety, to facilitate interdepartmental relations.</li> <li>• Assist with the development of new electrical engineering standards and improve existing standards and guidelines, implementing industry and company best practices.</li> <li>• Ensure that the electrical portion of the estimated Balance of Plant cost is optimized by providing accurate project layouts and bills of material takeoffs with constructability and operability needs.</li> <li>• Act as a subject matter expert regarding some electrical engineering activities such as material requisitions, technical bid bid tabulations and support commercial bid evaluations.</li> <li>• Interact closely with internal teams to ensure that project needs and objectives are met.</li> <li>• Monitor electrical-related scope documents, exhibits, specifications, schedules, and Requests for Proposals (RFPs).</li> <li>• Lead / participate in project meetings and conference calls.</li> <li>• Participate in engineering, design, and construction review processes.</li> <li>• Lead and conducts value-engineering studies of alternative design approaches.</li> <li>• Review electrical discipline calculations and equations, including electric circuit calculations, 3-phase power and ampacity, impedance, sizing of conductors, calculation of losses, reactive power, verification of proper phase rotation, relaying calculations, short circuit calculations, and Arc Flash studies.</li> <li>• Interpret plans, specifications, drawings, and documents related to engineering and construction.</li> </ul>

- Coordinate project construction with Project Managers and Site Construction Managers to resolve critical and time-sensitive construction-related electrical issues.
- Lead / assist in electricity-related issues, including root cause analysis as needed.
- Reviewing the FEED / EPC schedule and CTRs.
- Supervise the engineering team progress and put the flawed policy in documents tracking.
- Reviewing all project documents issued by consultant to raise the issues.
- Approve the validated documents to the detailed engineering phase.
- Handling conflicts occurring during project execution to minimize project risk.
- Analyze project reports and action logs to investigate unforeseen problems and deviations from project plan; in order to take the necessary preventive and corrective actions to achieve project goals.
- Report project progress and performance to management.

**Dates** : From Sep. 2011 till Nov. 2013

**Employer** : Chicago Bridge& Iron (CB&I)

**Projects** :

- Cartagena Refinery Expansion, Reficar Company, Columbia
- Longford Gas Conditioning Plant, Exxon Mobil, Australia: The key overall objective for Longford Gas Conditioning Plant (GCP) Project is to remove sufficient CO<sub>2</sub> from the Marlin gas pipeline to enable gas processing through Longford Gas Plants by:
  - Processing approximately 11 M. m<sup>3</sup>/d feed gas.
  - Treat feed gas containing up to 14.7 mol% CO<sub>2</sub> inlet and 2 mol% CO<sub>2</sub> outlet.
  - Remove Mercury from incoming feed gas stream.

**Job title** : Lead Electrical Engineer

**Job Description** :

- Managing interfaces and conflicts during project execution to build productive work environment among CB&I (main office) and Cairo office teams.
- Direct and monitor senior engineers to ensure achieving project objectives.
- Provide quality and effective project management support.
- Identifying all parts and resources required for project completion.
- Processing of job documentation, including timesheets on a timely basis and ensure prompt and satisfactory job closure.
- Liaise and communicate with other company facilities and departments.
- Ensure that the technical competence of electrical personnel under their supervision is matched to the work in hand.
- Ensure that the work output of electrical personnel under their supervision complies with the relevant company, Client, national & international standards & procedures.
- Provide technical assistance for electrical personnel as required.
- Ensure as far as practically possible all assigned work is carried out in compliance with the agreed budget and schedule.
- Prepare engineering and construction scope for both man-hours and equipment estimates and assist in the review of proposed schedules.
- Ensure that the results of any development work are fully utilized in electrical activities.

- Provide technical assistance to other disciplines as required.
- Provide documentation and drawing deliverables for inclusion in work packs and design books on time to meet offshore deadlines.
- Produce cost effective designs that are fit for purpose and safe.
- Participate as necessary in discussions with Clients and visit job sites as required.
- Assist the Electrical Engineers when requested in the execution of their responsibilities and duties.
- Knowledge of, compliance with and promotion of office, site and contract/project health and safety guidelines and procedures.
- Comply with the company Safety Management System.

<b>Dates</b>	:	From Jun. 2010 till Sep. 2011
<b>Employer</b>	:	SNC-Lavalin
<b>Projects</b>	:	<ul style="list-style-type: none"> <li>• Sahrazad Project – Phase 1, Solvay Alexandria Sodium Carbonate, Alexandria – Egypt</li> <li>• Yas Island District Cooling Plant, Tabreed, Abu Dhabi – UAE</li> </ul>
<b>Job title</b>	:	Lead Electrical Engineer
<b>Job Description</b>	:	<ul style="list-style-type: none"> <li>• Manage the Electrical Engineering team to ensure that all technical documentation is executed in accordance with the projects' requirement for quality, while respecting the pre-established constraints of budget (capital and service costs) and schedule.</li> <li>• Technical competence of electrical engineering personnel.</li> <li>• Maintain an ongoing working relationship with the other Lead Discipline Engineers, the Engineering Manager, the Client discipline representative, and with the key procurement, controls and construction team members.</li> <li>• Check compliance with Alliance QA/safety/environment goals.</li> <li>• Identify and review new technology development which could be applicable in providing more cost effective facilities.</li> <li>• Planning and Organization: <ul style="list-style-type: none"> <li>- Plan and direct the mobilization and demobilization of the discipline personnel.</li> <li>- Prepare a list of engineering deliverables for the discipline to permit the planning and control of the engineering budget and schedule.</li> <li>- Prepare of man-hour estimates to perform project tasks based on tender scope Documents.</li> <li>- Prepare weekly electrical progress and expenditure reports on a project specific basis.</li> </ul> </li> <li>• Engineering and Operations: <ul style="list-style-type: none"> <li>- Design calculations for electrical system such as Fault level, voltage drop, equipment Sizing, lighting, earthing and cables.</li> <li>- Development of load lists, equipment list, equipment specification, data sheets &amp; material requisitions.</li> <li>- Development of electrical layouts, hazardous area classification layouts.</li> <li>- Technical bid evaluation, Vendor drawing review.</li> <li>- Prepare all technical documentation required for the execution of the project.</li> <li>- Manage and coordinate the progress of the electrical engineering work.</li> </ul> </li> </ul>

- Review shop drawings to ensure conformity with engineering designs.
- Monitor the fabrication and construction work to ensure that it is executed in accordance with the engineering design.
- Investigate advice and resolve complex design and field engineering problems.
- Provide technical guidance, advice and instruct project team.
- Measure the progress of the discipline engineering work packages, on a monthly basis, to ensure that the budgets and schedules are being met.
- Manage electrical design and any design changes within budget and schedule.

<b>Dates</b>	:	From Nov. 2008 till May 2010
<b>Employer</b>	:	Worley Parsons
<b>Projects</b>	:	<ul style="list-style-type: none"> <li>• Large Brown Field Offshore Project (Platforms Rehabilitation Project), Gupco-British Petroleum, Ras Shukeir – Egypt</li> <li>• Ras Shukeir Sea Berth Pipeline Replacement, Gupco-British Petroleum, Ras Shukeir – Egypt</li> </ul>
<b>Job title</b>	:	Lead Electrical Engineer
<b>Job Description</b>	:	<ul style="list-style-type: none"> <li>• Technical supervision of the project designated electrical designers and draftsmen in the execution of their duty.</li> <li>• Technical competence of electrical engineering personnel.</li> <li>• Design calculations for electrical system such as Fault level, voltage drop, equipment sizing, lighting, earthing, cable sizing.</li> <li>• Development of load lists, equipment list.</li> <li>• Inter discipline, communication development.</li> <li>• Check compliance with Alliance QA/safety/environment goals.</li> <li>• Development of electrical power distribution concepts, SLD, schematic diagrams.</li> <li>• Development of electrical layouts, hazardous area classification layouts.</li> <li>• Electrical protection and relay selection, setting, coordination.</li> <li>• Specifications and data sheets for electrical equipment.</li> <li>• Technical bid evaluation, Vendor drawing review.</li> <li>• Control of electrical design budget and schedule.</li> <li>• Preparation of man-hour estimates to perform project tasks based on tender scope documents.</li> <li>• Manage electrical design and any design changes within budget and schedule.</li> <li>• Evaluate new technology advancements against existing design standards and revise where applicable.</li> <li>• Promote cost reduction and productivity enhancing initiatives.</li> <li>• Prepare weekly electrical progress and expenditure reports on a project specific basis.</li> <li>• Safety – Responsible for personal safety safe working practices for the BU, etc.</li> <li>• Understand and follow OH&amp;S procedures. Identify and review new technology development which could be applicable in providing more cost effective facilities.</li> <li>• Quality Assurance – Responsible for working within the provisions and guidelines of the Quality Assurance system relevant to the BU, etc.</li> </ul>

**Dates** : From Jul. 2007 till Nov. 2008  
**Employer** : Dar Al-Handash (Riyadh – Saudi Arabia)  
**Project** : Projects Development Center (Technical Support), Ministry of Interiors, Riyadh – Saudi Arabia  
**Job title** : Senior Electrical Engineer  
**Job Description** :
 

- Liaise with other related disciplines and co-ordinate work with them.
- Preparation of design schedules and assist in preparation of design budgets.
- Review design work or studies being carried out by others.
- Assist in managing consents and approvals.
- Monitor and report progress.
- Provide support to the Construction Department and Field Engineering to resolve field changes.
- Preparation and review of P&IDs, calculations, equipment specifications, material requisitions, subcontract packages, system descriptions, design criteria documents, design change packages, and technical bid evaluations.
- Coordination of work activities with other project groups.
- Review of supplier documents and coordination with suppliers.
- Ensuring designs are consistent with project technical requirements, codes, standards, and estimates.
- Providing support to the supervisor in developing and maintaining scope, schedule, and estimate for design activities, and directing/training junior engineers.
- Explaining designs to outside agencies and clients.
- Conducting field inspections and walk downs as necessary.

**Dates** : From May 2006 till Jun. 2007  
**Employer** : Al-Hejailan Consultants (Aramco Consultant), Al-Khobar – Saudia Arabia  
**Job title** : MEP Engineer  
**Job Description** :
 

- Preparation material requisition either for the main equipment or for the electrical bulk materials. This included the preparation of specifications, data sheets, supplier document requirements, minimum quality surveillances and application sheets.
- Participation in evaluation of received bids.
- Prepare technical evaluation reports.
- Prepare material requisition for purchase.
- Participation in cycle of vendor prints review.
- Inspection & testing of electrical equipment.
- Construction supervision of electrical systems installations at site.
- Assistance in commissioning & start-up of electrical systems at site.
- Preparation of man-hour estimate & scope of work for proposals stage.

**Dates** : From Jan. 2000 till Apr. 2006  
**Employer** : Petroleum Projects and Technical Consultation Company (Petrojet), Cairo  
**Projects** :
 

- Terminal Facilities - Daba Jetty, Saudi Aramco, Saudi Arabia
- Ethylene Project - Ras Lafan, Technip, Ras Lofan – Qatar
- El-Sharara - Millitah Pipeline (750 km), Agip, Libya
- El-Khoms - Tripoli Pipeline (110 km), Sirte Oil Company, LIBYA

- LNG Project, Technip, Yemen
  - LNG Project, Bechtel, Idku – Egypt
  - NGL Project, United Gas Derivatives Company, Damietta – Egypt
  - Housing Colony for Nubaria Power Station, Pgesco Company, Nubaria – Egypt
- Job title** : Electrical Engineer
- Job Description** :
- Preparation material requisition either for the main equipment or for the electrical bulk materials. This included the preparation of specifications, data sheets, supplier document requirements, minimum quality surveillances and application sheets.
  - Participation in evaluation of received bids.
  - Prepare technical evaluation reports.
  - Prepare material requisition for purchase.
  - Participation in cycle of vendor prints review.
  - Inspection & testing of electrical equipment.
  - Construction supervision of electrical systems installations at site.
  - Assistance in commissioning & start-up of electrical systems at site.
  - Preparation of man-hour estimate & scope of work for proposals stage.
- Field of experience** :
- Accomplished Engineer with expertise in all facets of Projects / Electrical Power Engineering leveraging technical expertise in construction, design, specification and services for electrical systems for both onshore & offshore projects. Proven Leader recognized for effective problem solving, project scope, budget development, continuous design improvement, resource management, and customer and vendor relations. Certified Cost Professional, also proficient with international standards (API, IEC, NEC, IEEE, etc.), and well-versed in the protection and maintenance of electrical networks. Adept in Windows 8, MS Project, AutoCAD, ETAP, Primavera & ISO 9001:2008.
  - Engineering Development.
  - Technical Expertise & Supervision.
  - Resource Loading & Leveling.
  - Project Design & Specification.
  - Cost Estimation & Reduction.
  - Electrical Network Studies.
  - Construction Management.
  - Quality Assurance.
  - Contractor Relations.
  - Hazard Classification.
  - Commissioning support.