

Holds a B. Sc. in Electrical Power Engineering and has about 17 years hands-on experience working in construction and commissioning.

## **PERSONAL DATA**

Nationality : Egyptian  
Gender : Male

## **EDUCATION**

: B. Sc. in Electrical Power Engineering, Menoufia University, 2007

## **LANGUAGES**

Arabic : Native Language  
English : Very Good

## **COMPUTER SKILLS**

: Windows, MS Office (Word, Excel, Power Point), Internet  
: AutoCAD  
: SAP system software  
: UNICCS System  
: ETAP, Smart Plant Electrical SPEL, Smart Plant Material, DIALux

## **TRAINING COURSES AND CERTIFICATIONS**

: PMP (Project Management Professional), Project Management Institute (Oct. 2020).  
: Electrical transformer (EETC) (Jun. 2009).  
: Medium voltage distribution panels (EETC) (Jun. 2009).  
: Concepts of quality management system, ISO 9001: 2008 (Apr. 2011).  
: Internal Audit of Quality Management System, ISO 9001: 2008 (Oct. 2011).  
: LOTO training (Lock out tag out training) (Shell & ERC) (Apr. 2014 & Dec. 2016).  
: PTW training (Shell & ERC) (Apr. 2014 & Dec. 2016).  
: OSHA General Industry Safety and Health (29 CFR 1910) (Apr. 2009).  
: OSHA Constriction industry Safety and Health (29 CFR 1926) (May 2009).  
: Work at Height, Use and Assembly of the Descensor for Wind Turbine Evacuation (Mar. 2012).  
: Confined Space.

- : Risk Assessment.
- : Permit to work.
- : Incident reporter and investigator (IRS).
- : Fire-fighting.
- : Working at heights.
- : Lock out & Tag out (LOTO).
- : Incident & Injury Free (IIF).
- : H2S effects & Scape Hoods.
- : Defensive driving license.

## CHRONOLOGICAL EXPERIENCE RECORD

<b>Dates</b>	: From 2022 till now
<b>Employer</b>	: Worley
<b>Project</b>	: Egypt, SOPC Coker Complex Rehabilitation Project, USD3.2 billion
<b>Job title</b>	: Lead PMC Electrical Engineer
<b>Job Description</b>	: <ul style="list-style-type: none"> <li>• Review/Approve electrical discipline calculations and studies including Power system studies (Short circuit, Load Flow, Motor Starting, Relay Coordination), Earthing Calculation, Cable Sizing, Lighting calculation and Electrical Equipment Sizing.</li> <li>• Coordinate other discipline Engineer's participation in layout reviews, design reviews, and technical workshops and 3D Model sessions.</li> <li>• Reply to bidders 'clarifications during bidding stage.</li> <li>• Attend Project technical sessions by the EPC Contractor such as: Design Review Meetings, Review Meeting, Constructability, SIL, EIA, HAZOP and HAZID.</li> <li>• Review hazardous area classification drawings for selection of electrical equipment with respect to applicable codes.</li> <li>• Assessment of all drawings prior to release to ensure complete and in compliance with project instructions, client requirements, applicable codes, standards, and specifications.</li> <li>• Identifying, evaluating, and resolving Electrical Engineering issues during the EPC phase.</li> <li>• Ensured development drawings checked and completed in an efficient and timely manner.</li> </ul>
<b>Dates</b>	: From 2021 till 2022
<b>Employer</b>	: Wood
<b>Project</b>	: Egypt, Alexandria, Midor Refinery Project (Middle East Oil Refinery Co.), USD 2.4 billion
<b>Job title</b>	: Lead PMC Electrical Engineer
<b>Job Description</b>	: <ul style="list-style-type: none"> <li>• Representing Middle East Refinery (Midor) as a member of Wood (IPMT Team).</li> <li>• Coordinating with EPC contractors and subcontractors to achieve the highest quality level for the refinery expansion project.</li> <li>• Following up project electrical activities for both brown and greenfield (Inspection, testing MC walkdowns, punch clearance, PSSR walkdown,</li> </ul>

energization for process and non-process systems/subsystems.

- Following up and witnessing inspection, SAT and commissioning electrical distribution System 33KV, 6.6KV, 04KV includes associated 33KV / 6.6KV transformers, Switchgears, and cabling, and MCC's, VSDs, electrical system in classified areas, Industrial lighting systems, AC/DC UPS Emergency Generator & automatic change over facilities, Cathodic Protection system including U/G piping & Tanks, Heat trace system, Earthing systems including NIS, IS, PE and lightning systems, Cabling including laying termination complete with testing up to 33KV.

**Dates** : From 2019 till 2021

**Employer** : Worley

**Project** : Egypt, Assiut, Manfalut, Gahdam, Assiut Oil Refining Co. ASORC Naphtha Complex Project, 500 M\$

**Job title** : Lead PMC Electrical Engineer

**Job Description** :

- Responsible for reviews and approvals of Site Inspection Plan ITP's, issued by EPC Contractor, and witnesses all electrical construction, SAT activities, Pre-commissioning, and Commissioning.
- Ensure that the work is completed according to Specifications and approved drawings.
- Monitoring and administrating EPC Contractor quality performance for achieving the Provisional Acceptance Certification.
- Reviews and approves the Non-Conformity Reports, analyses root causes, appropriate corrective action, and preventive action.
- Providing support to the preparation of the Test-Pack Dossiers, Mechanical Completion dossiers and ready for Start-Up dossiers.
- Providing confirmation approval of all Inspection forms for System and Plant readiness before handing over from Construction up to Provisional Acceptance.
- Ensuring correct implementation of Quality Control Plans, programs, and Quality Assurance procedures for the Construction site activities within the framework of the Project Quality Management systems.
- Preparation of Daily, Weekly, Monthly and any updated reports relevant to Construction, Pre-Commissioning and Commissioning activities required from electrical discipline and appropriate submissions to Management.
- Follow up and witness on all electrical installation, testing and commissioning electrical distribution System 11KV, including associated transformers, Switchgears, cabling and Motor Control Centre (MCC) and motors up to 11KV this including VSD, electrical system in classified areas, Industrial lighting system, AC/DC UPS (uninterrupted power supply), Stand-by power supply including Emergency Generator & automatic change over facilities, Cathodic protection system including U/G piping & Tanks, Heat trace system including self-regulating & Skin effect types, Earthing systems including NIS, IS, PE and lightening systems.

**Dates** : From 2015 till 2019

**Project** : EGYPTIAN REFINING COMPANY (ERC) – MOSTOROD

**Job title** : Lead Electrical Engineer

- Job Description** :
- Equipment: HCU, DHT, NHT/CCR, DCU, HPU, VDU, SRU, SWS, ARU and Tank farm.
  - Supervised and witnessed all electrical installation, testing and commissioning of Electrical Distribution System 6.6KV, 11KV, 22KV & 33KV, including associated transformers, Switchgears, RMU's, NER's and cabling.
  - Supervision of Motor Control Centre (MCC) and motors up to 11KV, including VSD up to 6.6KV, electrical system in classified areas, Industrial lighting systems, AC /DC UPS systems, Stand- by power supply including Emergency Generator and automatic change over facilities.
  - Management of Cathodic Protection System including U/G piping and tanks, Heat Trace system including self-regulating & Skin effect types, power factor correction Systems including capacitor bank up to 33KV, Earthing systems including NIS, IS, PE and lightening system and cabling including laying termination testing up to 66KV.
  - Fully conversant with electrical installations in classified areas such as National Electric Code (NEC), American Petroleum Institute (API), International Electro-technical Commission (IEC), IEEE Codes, and Hazardous Area classification Sound. Working knowledge of the National Electric Code (NEC).
  - Supervise Field work and provide solution for major and minor electrical problems, complete with the Contractor Engineers the construction phase of Projects between Project Turn-Over (PTO) and completion of Field work and Commissioning as per Company procedures, project plans, specifications, codes, and contract documents.
  - Responsible for the preparation of Daily, Weekly, Monthly and any updated reports relevant to Construction, Pre-Commissioning and Commissioning activities required from electrical discipline and submitting to management.
  - Conduct visual inspection and SAT walkthrough prior to the SAT activities with appropriate follow up with Contractor to clear SAT walkthrough punch list.
  - Review and approve project Method Statement (MS), Inspection Test Plan (ITP) checklists, Materials Approval Sheets (MAS), Site Acceptance Test (SAT) procedure, Inspection Test Reports (ITR), Field Change Notice (FCN), Concession request (CR), Marked up drawing and any documentation relevant to electrical discipline.
  - Fully conversant with electrical installation, testing and commissioning of Gas Insulated Switchgear (GIS) 66KV, this includes associated transformers, Switchgears, local control panels, protection panels, NER's and cabling.
  - Conduct Mechanical completion & validated Walkthrough for project Systems/Subsystems.
  - And follow up with contractor to clear MC punch list.
  - Review project Electrical subsystems boundaries and limits to ensure the limits are correct from the function wise.
  - Conduct PSSR (Pre-Start Up Safety Review) walkthrough with validation team to ensure the readiness of Substation /Process units.
  - Review and approval of energizing procedures.
  - Carry out successfully energizing for Electrical substations from 6.6KV up to GIS 66KV.

**Dates** : From 2012 till 2015

**Project** : Assil and Karam CO2 removal Gas development Plant in BED-3 Field, Western Desert

**Job title** : Senior Electrical Engineer

**Job Description** :

- Supervision Electrical construction activities to assure compliance with engineering design supplied drawing, specification and standards.
- Execute all power and control cable trenches, LV and MV termination, and MV splice kits, all electrical tests activities (Megger, hi-pot and continuity).
- Review technical drawings then give comments to design to take actions.
- Study and raise any design change notification required during mechanical completion and pre-commissioning.
- Perform with contractor all the required checks and tests relevant to the approved check lists and check sheets and give a decision related to the tests results.
- Produce punch list for electrical systems and subsystems to ensure compatibility of these systems to our standards and regulations.
- Supervise installation of 1.2MVA emergency diesel generator, mechanical completion, testing, pre-commissioning, commissioning and start-up.

**Dates** : From 2007 till 2012

**Employer** : Petrotec

**Project** : ZAFRANA WIND FARM (Spanish, Germany, Jibic and Danida projects), Red Sea

**Job title** : Electrical Site Engineer

**Job Description** :

- Installation, testing, commissioning, Power cable for (336 wind turbine generator) Wind projects at ZAFRANA WIND FARM.
- Maintenance and Operation for medium voltage 22KV network for Spanish, Germany and Jibic projects contains (336 Transformer Almaco 22/0.4KV, 1050 KVA, 336 RMU Schneider electric and 400 km medium voltage cables).
- Execute Modification related to Transformer Temperature Monitoring for 336 Transformer (Spanish, Germany and Jibic projects).
- Responsible for the performance of all transformers testing (oil dielectric, turns ratio and megger) rating from 1000 KVA, 5000KVA at Egyptian Atomic Energy Authority.

**Field of experience** :

- About 17 years' experience in Electrical Field Engineering and Project Management, my profile covers experience of all stages of project, from Conceptual Studies, FEED and EPCs, FAT/SAT testing, Construction, Mechanical completion, Systems Walkdown and Handover, Pre-Commissioning, Commissioning, Start-up, PSSR, Performance and Guarantees test runs of Project PAC/FAC.
- Experience of working in both of Brown and Green Field projects and successful Mega-power plants and Oil & Gas projects (Renewable Energy Wind/Solar, Gas plants, and Refineries).
- I have a thorough understanding and flexible approach in conforming to both local and International Codes, Standards, and Specification (IEC,

IEEE, BS, NEC, API, Shell DEPs).

- In addition to my responsibility attitude, leadership and self-motivation enabled me to work on USD multi-billion projects with multinational companies.
- I have managed and reviewed all Electrical engineering deliverables, P&IDs, Specifications, Datasheets, MRP, Award recommendation, TBE, Vendor prints, ITPs, FAT/SAT procedures, validate test results, review Contractor's Claims and scope changes.
- I have considerable experience in Risk assessment, QRA, HAZOP, HAZID, SIL and SAFOP.
- I have communication and leadership skills to maintain and monitor projects stakeholder management to obtain the required continuous support for project success.