

Holds B. Sc. and M. Sc. in Electrical Power & Machines Engineering, a Post Graduate Diploma in Engineering and Natural Gas Technology and is preparing PhD degree. Has over 11 years experience in Electrical Engineering, Project Management, Construction, Operation, Maintenance, SAP Modules, MIE Project, Technical Support and Planning in Oil & Gas and Petrochemical Facilities mostly in Egypt, Iraq & Oman.

## PERSONAL DATA

Nationality : Egyptian  
Birth Date : 03/03/1985  
Gender : Male  
Marital Status : Married  
Residence : Cairo

## EDUCATION

- : B. Sc. in Electrical Power & Machines Engineering, Ain Shams University, 2006
- : M. Sc. in Electrical & Power Engineering, Ain Shams University, 2012
- : Post Graduate Diploma in Engineering and Natural Gas Technology, Al-Azhar University, 2012-2014
- : PhD in Electrical & Power Engineering, Ain Shams University (Comprehensive Exam and Pre-PhD courses have been completed, preparing for research thesis), 2013-2017

## LANGUAGES

Arabic : Native Language  
English : Excellent

## COMPUTER SKILLS

- : Windows, MS Office, Internet

## TRAINING COURSES AND CERTIFICATIONS

- : Technical and Business Courses:
  - Protection System in Industrial Power Plants Course, Alex University (2009).
  - Basic Machinery Vibrations "An introduction", Ritech (2009).
  - Variable Speed Drive (VSD) type ACS-800 operation and maintenance, ABB (2009).
  - Insulating oil Testing and Power Transformer Technical State Assignment, In Site (2009).

- Electrical Motors, Protection, Testing and Maintenance, OGS (2010).
  - Instrumentation Installation in Hazardous Area, OGS (2010).
  - PLC (Programmable Logic Controller) Course, OGS (2010).
  - Advanced Electrical Protection Relays and Systems, OGS (2010).
  - UPS and Battery system training course, Enppi (2011).
  - Individual development plan awareness program, OGS (2011).
  - Business Coaching Skills, OGS (2012).
  - Computerized Maintenance Management System (CMMS), AUC (2012).
  - Security Awareness for information Risk Management, Bapetco (2013).
  - High Voltage Authorization according to Shell Safety Rules from PDO (Petroleum Development of Oman), OMAN (2013).
  - Preparation of Professional of Management Project (PMP), OGS (2013).
  - Design, maintenance and operation medium voltage switchgears, Schneider (2013).
  - Lifting Equipment Certifications from LEEA (2014).
- : Software Programs:
- ICDL (V5) (2005).
  - Calclux / Dialux (2006).
  - AutoCAD (2D) (2006).
  - SAP P6 (PM, MM / CPL Module) (2008).
  - SAP (GWOS, FSR, E-WIMS, BW) (2011).
  - CMMS (2012).
  - Primavera (P6) (2013).
  - SAP P7 (2014).
- : Special Industrial Training:
- Hazards in Process Operations (2008).
  - Practical and Theoretical Fire Fighting (2008).
  - First Aid (2008).
  - Permit to Work System, Shell Egypt (2008).
  - Chemical Awareness (2009).
  - Job Hazard Analysis (2009).
  - Driving for Excellence (2010).
  - HSE & EWR Awareness (2014).
  - H2S Awareness (2014).
  - Permit to Work System, Shell Iraq (2014).
  - HEAT TRAINING – Shell Office, Dubai (2014).
- : Certificates in English from British Council and Test of English Language Proficiency.

## CHRONOLOGICAL EXPERIENCE RECORD

- Dates** : From Sep. 2016 till now
- Employer** : BAPETCO JV Shell Egypt, Main office
- Project** : Obaiyed oil & gas field, West Desert, Egypt
- Job title** : Technical Support & Reliability Engineer Supervisor
- Job Description** :
- Assure maintenance strategies are regularly reviewed and fit for purpose.
  - Assure asset registers, safety critical element selection, and performance standards are current and complete.
  - Lead by example in the execution of MIE.

- Drive improvements in workplace safety management, with an emphasis in Life Saving Rule compliance, Permit to Work, and Task Risk Assessment.
- Support the execution of an Asset Integrity improvement plan, with the objective of achieving as much compliance against Shell Operational Excellence standards as possible.
- Coach and mentor maintenance staff in the field and act as an assessor in competence assessment sessions.
- Ensure high reliability and plant uptime levels via RCA analysis, and excellence in maintenance execution.
- Maximize the utilization of SAP, Facilities Status Reporting (FSR), and other tools to ensure transparency of maintenance & integrity performance as a means to drive improvements.
- Contribute to Operational Readiness activities for plant upgrades and new projects.

**Dates** : From Sep. 2014 till Aug. 2016  
**Employer** : SIPD Shell Petroleum Development BV  
**Project** : Majnoon Field - BASRA, IRAQ  
**Job title** : Maintenance & Integrity Engineer  
**Job Description** :

- Supervision and monitor SAP work preparation team.
- Planning and undertaking scheduled maintenance strategy through SAP.
- Preparing KPIs /shut down Plan (1, 3, 5 years) on B7 report / SAP.
- Review PM & CM for rotating and Static equipment at site.
- Responding to breakdowns, diagnosing faults and repairing equipment.
- Supervising engineering and technical staff.
- Ensuring compliance with health and safety legislation.
- Preparation of Plant Maintenance Routine (PMR).
- Obtaining specialist components, fixtures or fittings.
- Develop maintenance strategies for equipment of respective department.
- Carry out Maintenance Optimization.
- Have excellent background in mechanical, instrumentation and lifting system.

**Dates** : From Feb. 2012 till Aug. 2014  
**Employer** : BAPETCO JV Shell Egypt, Main office  
**Project** : Obaiyed oil & gas field, West Desert, Egypt  
**Job title** : Senior Technical Support Engineer  
**Job Description** :

- Closely communicating and coordinating with Manufacturing and Maintenance for providing technical support efforts to improve electrical system reliability.
- Preparing monthly, quarter and annual reports include all preventive and corrective maintenance orders implemented.
- Participate in investigation team for any abnormality / failures in plants electrical installations, provide technical support, and recommend solutions to enhance reliability of electrical system / equipment.
- Supervision of operation and maintenance activities and preparing quarter reports.
- Preparing KPIs /shut down Plan (1, 3, 5 years) on BW report / SAP.
- Conduct feasibility and optimization scope of work for projects and

required services includes:

- Prepare the technical scope of work covers the service required.
- Preparing technical criteria and estimates budget.
- Assisting consultants, contractors and/or other concerned company personnel in scoping, defining, and planning such projects.
- Technical member in tendering process to evaluate all materials and services submitted by different bidders (general suppliers / vendors / contractors).
- Planning and supervision of infrastructure for new projects including Scope/ BOQ formulation, vendor selection, managing contracts and coordination with sourcing and finance departments.
- Review SAP system materials report to evaluate the current status of stock items balance and to determined Min/Max quantities to updated.
- Participate in the identification, evaluation and validation of plant modification / upgrading requests involving:
  - Liaising with concerned parties e.g. field and terminal operations divisions, or other engineering departments.
  - Gathering, researching, analyzing relevant data and information, and collect field data is accurate.
  - Provide the field engineers with all possible solutions after contact with all parties concerned such as contractors, vendors / manufacturers.

- Dates** : From Jan. 2011 till Jan. 2012
- Employer** : BAPETCO JV Shell Egypt, Main Office
- Projects** : Obaiyed Oil & Gas fields, West Desert, Egypt:
  - Upgrade blueprint SAP software (version 4.6c)
  - MIE "Maintenance and Integrity Execution" implemented at Obaiyed oil & gas plant
- Job title** : PM SAP Application Support
- Job Description** :
  - Participate in upgrade blueprint study for SAP software (version 4.6c) and MIE project "Maintenance and Integrity Execution".
  - Executing SAP system maintenance processing (PM module):
    - Create notification.
    - Create PM order.
    - Assign materials.
    - External service using existing contract or generic service.
    - Confirmation for work order.
    - Create service entry.
    - Add RCA for corrective maintenance orders.
    - Classify the SCE PM & SCE CM orders.
  - Preparing KPIs (Key Performance Indicator) through BW report.
  - Follow up the status of work orders through FSR (Facility Status Report) and deviate orders required.
  - Execution SAP report to prepare 14 days plan & 90 days plan.
  - Follow up all department to execute all jobs related to SAP system
  - Follow up the status of work orders of oil and gas wells through E-WIMS.
  - Accomplishments:
    - Successfully upgrade study for blueprint SAP software (version 4.6c) to next generation of SAP software to be SAP ECC6 in Q2 2011.
    - Successfully implemented MIE project at Obaiyed plant where the

resulting rank is calculative with 63% in maintenance and 62% in SCE, which is the highest achieved score so far within Shell operating companies in the Middle East, while the global record is 67%.

- Passing the training course for GWOS (Graphical Work Order Scheduler) as part of MIE project.
- Participated in technical assessment / Business Audit of "Maintenance and Integrity Project at PDO" (Petroleum Development of Oman).
- Use Computerized Maintenance Management System (CMMS) in compliance with the global maintenance and business processes.

<b>Dates</b>	:	From Jul. 2008 till Dec. 2010
<b>Employer</b>	:	BAPETCO JV Shell Egypt
<b>Project</b>	:	Obaiyed Field, Western Desert, Egypt
<b>Job title</b>	:	Electrical Maintenance Site Engineer
<b>Job Description</b>	:	<ul style="list-style-type: none"><li>• Leading electrical maintenance on site through coordination between the team of electricians and operators in non-hazardous and hazardous applications.</li><li>• Working on SAP system PM, CPL Modules.</li><li>• Develop maintenance plans and schedules for critical equipments such as motors, transformer, compressors, columns, tanks, vessels, pumps, instrumentations, HVAC system and ensure implementation through SAP (Plant Maintenance Module).</li><li>• Arrange for shutdown plan implementation, including preparation of scope of work, jobs scheduling, manpower, tracking progress and prepare close-out report of shutdown activities.</li><li>• Apply preventive and corrective maintenance plans for all rotating and Static equipment located at Obaiyed field included but not limited:<ul style="list-style-type: none"><li>- Medium voltage system (11KV) e.g. motors, cables, Siemens switchboards, vacuum circuit breakers and vacuum contactors, etc.</li><li>- Low voltage system (400 V) e.g. HOLEC switchboards, motors, heaters, heat tracing, air circuit breaker, protection relay, voltage and current transformers.</li><li>- Power transformers up to 2 MVA (PAUWELS, ABB).</li><li>- Low voltage protection-control (Clink System).</li><li>- Chargers and UPS system.</li><li>- Caterpillar diesel engine generators.</li></ul></li><li>• Supervise the day-to-day operation and execution of preventive and corrective maintenance activities related to electrical plant and equipment in Obaiyed field, covering L.V/M.V motors, control circuits, transformers, cables, electrical submersible pumps (ESP), electrical protection systems, etc.</li><li>• Supervise the operation of power generation through Power Management System (PMS) covering 11KV / 415 V switchgear and transformers for load sharing.</li><li>• Ability to find and diagnose fault for equipment.</li><li>• Dealing with the different types of lifting equipment such as forklift, HIAB crane, Man lift / basket, cranes, etc. through HSE rules and precautions.</li><li>• Lead commissioning activities as required, ensuring correct processes, procedures and tools are used.</li><li>• Implementing Permit-to-work systems, Lock-Out-Tag-Out procedures</li></ul>

- (LOTO) and Electrical Safety Rules (ESR).
- Knowledge of area classification; specification selection and handling of electrical equipment in Ex/Zoned applications.
- Knowledge in design and review of electrical architecture principles, equipment sizing, SLD preparation.
- Involved in the new project and prepare electric punch list (e.g.: R.O plant, water well, new gas well, new sewage plant and pre compression plant).
- Participate in major overhaul for gas power turbine "20 MVA" with the manufacture at site.
- Execution SAP report to prepare 14 days plan.
- Executing SAP system maintenance processing (create notification, work order, assign materials, service, issue PR & PO, closing work orders and updating Asset history).
- Managing stocks of supplies and equipment through SAP.

**Dates** : From Sep. 2006 till Jun. 2008

**Employer** : Egyptian Fertilizers Company (EFC)

**Project** : Ain El-Sokhna, Suez, Egypt

**Job title** : Electrical Project & Commissioning Engineer

**Job Description** :

- Supervision electrical foreman & electricians.
- Review and check electrical installation drawings (One-line diagrams, Electrical equipment layout drawings, plan drawings, details, schematic wiring diagrams and vendor technical operation manuals) in accordance with company code, international standards.
- Monitor and validate all electrical installation, testing and commissioning as per projects specs/ drawings & int. standards (e.g. MRU, MV & LV Switchgears, panel boards, MCCs, transformers, Power station, Power Station, etc.) to be ready for commissioning and start-up.
- Size selection for power and control cables.
- Review shop drawing for power system e.g.: lighting, power sockets, cable tray, cables, switchgear, power substation, single line diagram, etc.
- Carry out the QS, invoices, As-Built drawings and deliverable to consultant.
- Accomplishments: Successfully completed installation, tested, commissioned, As built drawing and deliverables for client as per schedule baseline.

**Further experiences:**

**Dates** : From Mar. 2010 till Nov. 2010 (part time work in construction field)

**Employer** : Eldawlia for Electrical Construction, 6th October City, Egypt

**Project** : Supply and install the electrical works for new boiler unit at Procter and Gamble factory (P&G) under supervision from Integrated Bureau for Engineering & Consultations (IBEC)

**Job title** : Electrical Project Engineer

**Job Description** :

- Prepare the Bill of Quantity (BOQ) for all materials required in the site (Actual quantities).
- Estimate the budget for all resources e.g. labor, materials, equipment, services & facilities.
- Execute all electrical installation, testing and commissioning as per

projects specs / drawings, international standards and electrical safety rules.

- Monitor and validate the unit "Boiler" to be ready for commissioning and start-up.
- Accomplishments: Successfully completed electrical shop drawings, installation, tested & commissioned and deliverables for client as per schedule baseline.

- Job Description** : Working as Electrical Trainer (part time) in the electrical engineering field at different Centers such as:  
Electrical Drawings & Symbols:
- General Electrical Safety Rules.
  - Electrical Wiring Regulations for installation.
  - Electric Drawing and Symbols.
  - Cable types sizes, enclosures, maintenance and installation.
  - Earthing system testing and inspection.
  - Generators standby & Emergency.
  - Transformers and Maintenance.
  - Switchgear and Maintenance. Motors & Maintenance.
  - Protection of Electrical Equipment in Hazardous Areas.
  - Types of maintenance (Preventive, corrective & proactive).

#### **CONFERENCES AND PUBLISHED RESEARCH:**

- Participated and presented Oral presentation under the title: "Study the flashover voltage for outdoor polymer insulators under desert climatic conditions" in the 15th International conference on Petroleum, Mineral Resources and Development PMRD 2012, which was held in Egyptian Petroleum Research Institute (EPRI) on 8-10th Apr. 2012.
- Published technical research entitled "Study the flashover voltage for outdoor polymer insulation under desert climatic conditions" in Egyptian Journal of Petroleum (2013) Vol. 22, PP.1–8, which is under umbrella of Elsevier (USA).
- Participated and presented Poster Presentation under the title: "Alumina trihydrate as fire retardant for polyester insulator of high voltage applications" in the 2nd International conference on corrosion mitigation and surface protection technology, which was held in Seagull Hotel, Hurghada, Egypt on 10-13th Dec. 2012.

- Field of experience** :
- Maintenance & Integrity Reliability Engineer.
  - Technical Support and Planning Engineering.
  - PM SAP Application Support (MIE Project).
  - Electrical Project & Commissioning Engineer.
  - I gained my experience during work in different positions and sites inside Shell Egypt, Iraq & OMAN; such as applying PM&CM for all rotating and static equipment to improve the KPI's and keep the plant maintenance availability, participated in the upgrade SAP and apply MIE project, involved in SAP technical assessment at Shell PDO.
  - My strong skills in the design and installation for electrical project enable me to move as a Project and Commissioning Engineer (part time) in the different projects inside Egypt.
  - I successfully used my awareness of Shell DEP and international



standards/codes as well as knowledge of electrical rotating equipment with excellent results for my assignments in the construction, commissioning, start up and maintenance phases of various projects and operation plant.

- I have good backgrounds for mechanical, instrumentation and certifications for lifting and hoisting accredit by LEEA.