

Holds a B. Sc. in Mechanical Power Engineering and has about 17 years experience working in MEP field.

PERSONAL DATA

Nationality : Egyptian
Birth Date : 26/08/1984
Gender : Male
Marital Status : Married
Residence : New Cairo

EDUCATION

- : B. Sc. in Mechanical Power Engineering, Ain Shams University, 2007
- : Secondary Education: Om-Kalthoum Experimental Language School, Heliopolis

LANGUAGES

Arabic : Native Language
English : Very Good
French : Fair

COMPUTER SKILLS

- : Windows, MS Office, Internet
- : Primavera P6 & MS Project
- : HAP (Carrier E-20) software
- : CAD & REVIT programs

TRAINING COURSES AND CERTIFICATIONS

- : Currently: Studying and Preparing for Project Management Professional (PMP) Certificate.
- : Mar. 2021: CEM® "Certified Energy Manager" by Association of Energy Engineers AEE, USA.
- : Aug. 2020: "Data Center Physical Infrastructure" by SCHNEIDER ELECTRIC Energy University.
- : Jul. 2020: "Exploring Renewable Energy Schemes" by University of Pennsylvania through COURSERA.
- : Jun. 2015: "OSHA" Training Outreach & Certificate", CCC Company, Cairo.

- : Mar. 2014: "Design & Estimation of Cooling Loads using HAP (Carrier E-20)", Nasr City, Cairo.
- : Oct. 2013: "Business English Course", at "New Horizons", Downtown, Cairo.
- : Feb. 2013: "Design & Implementation of Firefighting systems", at AOC Center, Lebanon Square, Giza.
- : Nov. 2012: Planning & Scheduling using "PRIMAVERA P6" at "HTC", Faculty of Engineering, Cairo University.
- : Oct. 2012: "Design of Plumbing Systems" at Egyptian Engineers Syndicate, Cairo.
- : Mar. 2012: Certified as Welding Visual Inspector (Level II) from ASNT (American Society for Nondestructive Testing), at EWA (Egyptian Welding Academy), Cairo.
- : May 2011: "Vibration Analyses & Measurement" at "CMD", Eddokki, Cairo.
- : Aug. 2009: MATLAB "Introduction & Programming" at 'HTC', Faculty of Engineering, Cairo University.
- : Jan. 2005: Autodesk Inventor 9 Course (CAD program) at Faculty of Engineering, Ain-Shams University.
- : Jan. 2005: ANSYS (stress analysis program) at Faculty of Engineering, Ain-Shams University.
- : Choose "Pipe Lines and Networks" as an elective course, 2nd Semester 2007.
- : Mar. 2007: Trainee at Technical Dept., Shoubra El-Kheima Power Station, (315MW x 4 steam turbine): Practical study the different stages of BOILER & the techniques of operations.
- : Aug./Sep. 2006: Trainee at Belaaime Petroleum fields, Belaaime Petroleum Company (PETROBEL), AbouRdis, Suez Gulf: Overall analysis the main Power Station, supply the field & follow-up some maintenance duties for Gas Turbine.
- : Jul./Aug. 2006: Trainee on Gas turbine, Steam turbine, multi-stage Compressor, etc., North Cairo Power Station (750MW x 2 modules Installed Capacity): Full study the components of the Power Station explaining the significance of the Combined Cycle; Study the different Piping & Instrumentation Diagrams of the station; Monitored & executed station periodic maintenance.

CHRONOLOGICAL EXPERIENCE RECORD

Dates	: From 2021 till 2023
Employer	: ALSTOM
Project	: CAIRO MONORAIL Project (EON & WON)
Job title	: Subsystem Manager
Job Description	: • Manage, Lead & coach project teams to achieve the contractual deliverables and planned milestones for Project & System scope Internally & Externally. • Provide all required technical Interface & coordination for System & Equipment at design and construction phase with various technical disciplines (Civil, Arch, Electrical, Mechanical, ELV, etc.). • Carry out technical review & verification of Project Systems & Equipment documentation and Ensure the integration process for subsystem into the overall System together with the consortium partner (e.g. Civil work), the involved civil companies and consultants for depot.

- Interact with internal & external stakeholders and with all relevant departments inside the organization (such as Commercial, legal, Project Management), the consortium, civil companies, authorities ,and consultants.
- Lead, Manage and Supervise all works of Testing & Commissioning (T&C) and certification management (compliance statements & FAT and SAT schedules).
- Preparing progress and completion reports ensuring the timely & costly implementation of projects according to agreed time schedules and issuing claims in terms of additional works.
- Participating in advisory activities and meetings with relevant stakeholder when needed and supporting the project personnel with their communication and networking activities on technical related matters.
- Support in building Enterprise Asset Management Software (MAXIMO) for Installation and O&M requirements.

Dates	:	From 2018 till 2021
Employer	:	THALES International Egypt
Project	:	Modernization of Signaling Systems for Egyptian National Railways Corridors
Job title	:	Senior MEP (E&M, Electromechanical) Engineer
Job Description	:	• Providing and coordinating all Engineering & Technical Electromechanical Interface services (e.g.: HVAC, Plumbing, Fire Protection, Electrical,...etc.), in agreement with the management and in line with the governing Project rules and regulations from initiation to closing. • Performing technical activities and providing technical support to the infrastructure and construction of Technical Buildings throughout project lifecycle; planning, design, tendering & execution/supervision stages. • Support in formulating projects action plans and helps in synchronizing the planning and budgeting systems and counterparts relevant work. • Managing and directing Interface scope of Electromechanical systems with BMS & SCADA through assuring requirements of Control Modules & Supervisory elements (e.g.:Software & Hardware Interface, Communications Protocols, PLC, I/O lists,...etc.). • Coordinating and assisting with the Finance, Contracts and Procurement units in performing delivery of required materials, services and all other Project resources. • Preparing progress and completion reports, and following up on the reporting process. • Ensuring the timely implementation of projects according to agreed time schedules and issuing claims in terms of additional works. • Participating in advisory activities and meetings with relevant stakeholder when needed and supporting the project personnel with their communication and networking activities on technical related matters. • Assist in compiling lessons learnt from projects implementation and makes them available to the company. • Fully aware of International & European Codes and Specifications such as: - ASHRAE (Ventilation, Application, Systems & Equipment, Std. 62, Std. 99, Std. 55).

- NFPA (Handbook, Life safety code 101, Building Construction 5000, Gas Systems 2001, NEC 72, Extinguisher 10, Sprinkler 13, Stand Pipe 14, ...etc.).
- HVAC Systems (Chillers, Cooling Towers, DX & Precision AC CRACs, ...etc.).
- Permanent & Backup Power Systems (MV, LV, UPS & Diesel Generators, ...etc.).
- Protection Systems (Earthing, Grounding, EMC & Lightening Protection, ...etc.).
- ELV Systems (Fire Detection, Fire Suppression FM200 & CO2, CCTV, Anti-Intrusion Access Control, ...etc.).
- CAGI (Compressed Air and Gas Institute).
- EN 115 & EN 81 & ASME A17.1.
- BMS, SCADA & PLCs.
- CAD & REVIT.
- Renewable Energy (Solar, Wind, Hydroelectric...etc.).
- Technical Building & Data Center.
- Awareness by applications of "LEED" Certificate Requirements.

Dates	:	From 2017 till 2018
Employer	:	MISR ITALIA – Real Estate Developer, Cairo
Job title	:	MEP (Electromechanical) Section Head
Job Description	:	• Undertake the Project Engineering Management for Company's Portfolio MEP Infrastructure Networks & Building Services systems: - Plumbing systems: Black water Sewage Network, Grey water Sewage Network, Waste water Treatment Plant, Manholes, Potable Water Network, Irrigation network, Cold & Hot water services. - Firefighting systems: Fire Water Network, Water Tank, Pumping station, Hydrant, Cabinets, Sprinklers, Gas system. - HVAC System: Central & Split Air conditioning, Absorption & Compression Chillers, Smoke Management, Ventilation. - MV: RMU, Transformers & LV: Switchboards, Pillars, Lighting System. - Light Current, Fire Alarm System, Sound System, CCTV, Telephone & Data Network. - Conveying Systems: Elevators, Escalators & Walk ways. - Swimming Pools & Lakes & Fountains. • Manage Costing analysis, Quantity surveying, Contracting and Materials Procurement activities. • Carry out design review processes for all project submissions, such as: Conceptual designs, Detailed Designs, Shop drawings, Calculation notes, Technical offer, Financial offers, ...etc. • Represent the owner against all Project counterparts (e.g.; Consultant, Supplier, Contractor...etc.) for all Engineering and Site aspects. • Working on SAP system in managing MEP Planning, Procurement, Contracting & Cost Controlling for Company Projects. • Provide Reports on estimated cost & cash flows and budget for the assigned project's. • Monitor the project progress to achieve the planned target goals align with the contract condition. • Keep eyes on Quality & Time & Safety issues.

Dates : 2015

Employer : Consolidated Contractors International Company (CCC), Cairo

Project : Nile Corniche Project (NCP), High Rise Luxury Building

Job title : Mechanical Engineer

Job Description :

- Carry out and Handle the Vertical Transportation (VT) package of the project.
- Supervise & follow up the various activities for implementation of VT works which include; Procurement & Delivery of Materials & Components of Package according to delivery time schedule, Steel Structure installations & Scaffolding installations & MEP installations, Static & Movable equipment installations, Testing & Commissioning & Snagging activities.
- Monitor the execution of terms of contracts & follow up the daily progress of the works and take the needed corrective actions in case of delays impact the completion of the project.
- Play the key contact role between site works and its correlation on Planning & Engineering (e.g.: preparing of Method Statement, FCR, RFI,...etc.).
- Coordinate and manage the interface between execution of VT works and other trades.
- Manage the QA/QC processes for issuance of MARs, MIRs, WIRs,...etc.
- Work & Coordinate with HSE dept. to ensure compliance of safety procedures & to assist existing Hazards & to raise awareness of subcontractor toward safety issues through Safety inductions, Tool Box Talk (TBT), Risk assessment...etc.

Dates : From 2010 till 2015

Employer : Egyptian Company for Metro (ECM), the unique provider and operator of Metro service at Greater Cairo

Projects :

- MEP Projects (HVAC & Fire Fighting & Plumbing & Compressed Air & Power Supply):
 - Construction of New Almarj Metro station, the first subway line, Capital cost: 40 Million L.E.
 - Supply and Install Escalators & Elevators to the upper stations, the first subway line, THYSEENKRUPP & OTIS awarded, Capital cost: 60 Million L.E.
 - Construction and Development of Manshiat Essdar Metro station, the first subway line, Capital cost: 30 Million L.E.
 - Construction and Development of Hadaa'k Almaadi Metro station, the first subway line, Capital cost: 25 Million L.E.
 - Consultancy Services of Upgrading of Greater Cairo Metro line.1, established on 1986, (Helwan – Al Marj), Greater Cairo, SYSTRA awarded.

Work on study & review technical documents and supply the consultant with the necessary data for upgrading the following systems:

- Electromechanical Systems (Environmental Control System – Fire Fighting – Smoke Management - etc.).
- Rolling Stock system (running on the line since 1981).

- DEPOT Installations Projects:
 - Establishment and Renovation of TURA light repair and overhaul

Depot - Designed to serve 55 Train - Capital cost: 300 Million L.E.

Work includes but not limited to:

- ❖ Carry out processing of technical qualification documents for the bidders of the project.
- ❖ Establishment of new tracks for Light Repair Workshop.
- ❖ Leverage & Improve Overhaul Workshop's capacity in serving Rolling Stocks.
- ❖ Establishment of newly Painting Workshop (Painting Booth, Shooting Blast...etc.).
- ❖ Installation of new Overhead Catenary System (OHC) supplied the power to the workshop tracks.
- ❖ Supply the plant with newly equipment enhances the performance and the rate of maintenance works, such as:
 - Under Floor Wheel Lathe.
 - Wheel monitoring equipment.
 - Bogie drop machine.
 - Re-railing Equipment.
 - Car and Bogie Pusher.
 - Diesel Tractor.
 - Wheel Press.
 - Lifting Jacks.
 - Turn Tables.
 - Bogie & Axle elevators.
 - Painting booth.
 - Shot blast booth.
 - Overhead & Jip Cranes.
 - Fork Lift.
- ❖ Established a newly Inventory & Warehouse facilities (Pallet Racking & Drum Shelving & Heavy duty shelving...).
- ❖ Established Information network (MMS) to facilitate transferring & dealing with data and improving maintenance works.
- ❖ Establishment & Development of Compressed Air Network.
- ❖ Study & Approve & Supervise works of HVAC & Fire Fighting & Sewage works of the project.
- ❖ (Central A/C (CAV-VAV-DX-Chillers- Balancing)– Fire Hose System – Sprinkler & Gas fire suppression system (water, CO2, FM200, Energen...) – Sewage Gravity & Forced Network – Sewage Pumps – submersible Pumps – Booster Pumps – Fire Pumps – Jockey pumps).

- Establishment of KOSSIKA Light Repair Depot and Siding Yard, Capital cost: 500 Million L.E.:

Work includes but not limited to:

- ❖ Establishment of tracks for Light Repair and Siding, completed with all accessories serving Maintenance activities (e.g.: Gantry cranes & Jip cranes & Fork lift trucks & In track wheel monitoring device ...etc.).
- ❖ Establishment of Trains Washing Machine with treatment plant.
- ❖ Establishment of Sewage and Firefighting networks.
- ❖ Establishment of Pumping stations for Sewage & Washing water & Dewatering.
- ❖ Establishment of Compressed Air Network.
- ❖ Establishment of Diesel Fuel Filling Station for Diesel Tractor.
- ❖ Establishment of Warehouses and Admin Buildings completed

with its utilities.

Job title	:	MEP, Electromechanical & Depot Equipment Project Engineer
Job Description	:	• Undertake the Engineering improvements MEP (Mechanical, Electrical & Plumbing) Infrastructure & Building Services projects for the Company facilities. • Revise and approve the designs, drawings, submittals, billings of the Projects' counterparts (e.g.: Consultants, Supplier, Contractors, Subcontractor...etc.). • Manage, coordinate and consider the interface between various technical disciplines (Civil, Arch, Electromechanical, Light current, Tracks, Signaling, Overhead Catenary....etc.). • Work on the conceptual studies & Front End Engineering Design stage (FEED) of the project. • Work to develop plans and schedules based on the project various resources, inputs and data. • Study the opportunities to achieve the optimum utilization of the project engineering resources in support time, cost, safety, quality, and efficiency goals of project. • Study, prepare and review all the conditions and technical specifications and RFPs for tendering and contracting projects. • Provide data on the BOQs and RFQs and expected cost and cash flows for the project's budget. • Supervise on a daily basis the stages of work construction, implementation and installation of MEP projects. • Lead meetings and discussion sessions prior & within execution of projects with Consultants, Contractors & Project staff to identify & evaluate project needs & progress. • Monitor and follow-up the rate of progress of the work and make recommendations in case of deviation from the plans. • Participate in all works of handover & commissioning and certification management (compliance statements & FAT and SAT schedules) of project. • Ensure all works are in accordance with project specifications & company policy & all the safety requirements and measurements are followed. • A well experience in disciplines of MEP activities (HVAC & Fire Fighting & Plumbing & Drainage & Compressed Air Networks & Power Supply & Static, Rotating Equipment & Hydraulic systems & Pneumatic systems & Power Generations). • Design & Calculation Cooling Loads using HAP (Carrier E-20) software. • Planning and Scheduling using Primavera P6 & MS Project. • Worked as Project Engineer responsible for study, coordinate, follow-up, modify and approve Project works and documents for Electro-Mechanical systems at Tendering & Submittals & Construction and Commissioning phases, for the above mentioned projects.
Dates	:	From 2008 till 2010
Employer	:	Energya Telecom Cables Co. (ELSEWEDY-HILAL), 10th of Ramadan City
Job title	:	Mechanical Engineer in the Engineering Department

- Job Description** :
- Study, Design, Plan all the engineering aspects relevant to Development & Upgrading projects.
 - Assess the pending maintenance jobs, priorities and plan for the maintenance technician.
 - Supervised technical staff to implement the schedule preventive maintenance plan.
 - Advise the spare parts requirements for the Engineering Stores.
 - Coordinate with the production department to enhance & develop productivity.
- Field of experience** :
- Practical experience in various activities of Project Management (planning & scheduling & commissioning).
 - Planning and Scheduling using Primavera P6 & MS Project.
 - Design & Calculation Cooling Loads using HAP (Carrier E-20) software.
 - Design of Fire Hose System & Automatic Fire Suppression water & Gas Systems (Sprinkler system – Hydraulic calculations).
 - A Technical experience in selection & installation & maintenance activities of different mechanical equipment (Gear boxes, pumps, compressors, pneumatic & hydraulic systems).
 - 3D and 2D engineering drawings & workshop drawings (CAD & REVIT programs).