

# Marwan Berjawi, PMP<sup>®</sup>, PMI-RMP<sup>®</sup>

Beirut-Lebanon

Current Residence: Jeddah

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## SUMMARY

Mechanical Engineer with 13 years of experience played major construction and testing and commissioning roles in several turnkey Power and MEP (Pharmaceutical) projects in the Kingdom. I have wide experience in HVAC Duct, Fire Protection and Chilled Water Systems installation and commissioning. I am a team player that is good at solving problems with excellent communication and negotiation skills who is always looking for methods to improve the team's productivity, efficiency, and effectiveness. I am responsible, intelligent and I am always eager to learn new things and to be challenged to grow and improve my interpersonal, managerial, and technical skills. Able to work under pressure, handle clients and customers complaints and solve problematic situations to reach business objectives.

## SKILLS & KNOWLEDGE

**MANAGERIAL:** Project Management, Primavera P6, Scheduling and Planning, Cost Estimating, Construction Management, Start-Up and Commissioning Management, Risk Management, SWOT Analysis, Resilience, Handle Conflicts, Earned Value Analysis, Cost-Benefit Analysis, Pipe Fabrication Management, Procurement Management, Document Management, Time Management, Negotiation, Conflict Management, Contracts Management (Familiar with FIDIC) and Stakeholder Management.

**TECHNICAL:** Codes & Standards (ASHRAE, NFPA & IPC), Chillers, HVAC, Fire Protection, U/G Utilities and Plumbing, Simple and Combined Cycle Power Plant Projects, Water Treatment Plants, Gas and Steam Turbines and HRSG, Metallic and Non-Metallic Piping Installation, Alloy Piping Welding and Heat Treatment, Hydrostatic and Pneumatic Testing, ASME, P&ID and Process Piping, Pipe Spooling Management, Material Take Off, Flushing and Chemical Cleaning and Steam Blowing.

**SOFTWARE:** Microsoft Office (Outlook, Excel, PowerPoint, Word); Trello; Primavera P6; AUTOCAD.

## EDUCATION

Holder of bachelor's degree in mechanical engineering from BAU [2005-2009]

## CERTIFICATIONS /COURSES

- **Course of Managing Safely (IOSH)** Certificate No: 742353 (Course approved and validated by Institution of Occupational Safety and Health) – AMANA Group **Aug 2020**
- **Design of Building Management System (BMS)** A 20-hour Course provided by ENGOSOFT **Dec 2020**
- **Design of HVAC System** A 53-hour Course provided by ENGOSOFT **Sep 2020**
- **Design of Plumbing System** A 28-hour Course provided by ENGOSOFT **Oct 2020**
- **Design of Fire Fighting System** A 36-hour Course provided by ENGOSOFT **Nov 2020**
- **Course of GE-SC4 Steam Turbine Operation** Certificate #2018-R0135 (60 Hours Diploma given by REMOVE TECNOLOGIA S.L.) **Jan 2018**
- **PMI-RMP Certificate** License#1811023 (Project Management Institute- Risk Management Professional) **Apr 2015**
- **Risk Management Course for PMI-RMP Certification** (30 Hour Preparation course essential for applying to the Project Management Institute-Risk Management Professional Certification). [Long Distance learning by Pritchard Management Associates] **Mar 2015**
- **PMI-PMP Certificate** License#1787395 (Project Management Institute- Project Management Professional) **Jan 2015**
- **P91 Post Weld Heat Treatment** by Boyle Energy Services & Technology (BEST) [Sessions was held in BEMCO Site Offices as a part of training in the P91 Heat Treatment and Piping Welding] **Sep 2012**
- **Mechanical Building Services and Equipment**

[Sessions at the Community-Services & Continuing-Education Center (CCC), Beirut Arab University]

**Mar 2009**

- **Primavera Project Planner** [Sessions in Architect and Engineering Order of Beirut, Follow-up lectures for 30 hours] **Oct 2008**
- **Mechanical and Electrical System of Automobile** [Sessions at the Community-Services & Continuing-Education Center (CCC), Beirut Arab University] **Oct 2005**

## PROJECTS

1. **PP10CC Project EPC Turnkey Project (BEMCO):** PP10 Combined Cycle Gas Turbine Power Station (PP10CCGT), 3600MW Plant consists of 10 Power Generating Blocks Generate Approximately 3600MW, each Block: 4 x GT (GE – 7EA) + 4 x HRSG (NEM) + 1 x STG (GE) + 1 x ACC, Air Cooled Condenser (supplied by Research-Cottrell Dry Cooling – RCDC) + 1 DEMIN Plant (WETICO). In addition to Chillers, AHUs, FCUs installation and MEP Utilities (HVAC Duct, Fire Protection and Chilled Water).
2. **QASSIM Ext. III Project EPC Turnkey Project (BEMCO):** QASSIM Power Plant Extension III, 480 MW Plant consists of 8 GT (GE - 7FA) + DEMIN Plant (WETICO)
3. **QCCPPII Project EPC Turnkey Project (BEMCO):** QURAYYAH II Combined Cycle Power Plant (QCCPP), 3900MW Plant consists of 6 Power Generating Blocks Generate Approximately 3900MW, each Block: 3 x GT (GE - 7FA) + 3 x HRSG (DOOSAN) + 1 x STG (GE frame D11). MSF desalination plant (Doosan) and DEMIN plant (SIEMENS) & REMIN plant (VEOLIA) and hypo chlorination plant.
4. **KAIA Expansion Project (BEMCO):** Expansion of King Abdul Aziz International Airport in Jeddah. The Scope is three Load Centres A, B & C providing the New Expansion Premises with Power (Diesel Generators) and required Utility Systems (HVAC Ducting, Fire Protection, Chilled Water Piping, Potable Water, and other auxiliary systems).
5. **APEX Pharmaceutical Design & Build Project (AMANA):** Installation & Commissioning of Chillers (CARRIER), Boilers (HURST), Air Compressors (ATLAS COPCO), Hygienic AHUs & FAHUs (DAIKIN), Water Treatment Plant (VEOLIA) (RO, Sand Filters, Carbon Filters, Chemical Dosing for Boilers & Chillers) and MEP Utilities and Materials (Fire Fighting, HVAC Ducting, Plumbing and Chilled Water).
6. **RED SEA's Project : Southern Dunnes Hotel (AL FAYHAA):** Installation & Commissioning of Chillers (DAIKIN), AHUs (DAIKIN), FCUs (DAIKIN), Fire Pumps and MEP Utilities and Material (Fire Fighting, HVAC Ducting, Plumbing and Chilled Water).

## POSITIONS

Construction Manager – **ALFAYHAA**  
Sr. Project Engineer/ Project Manager – **AMANA**  
Sr. Commissioning Engineer - **BEMCO**  
Construction Engineer - **BEMCO**

**Nov 2021 – Current**  
**Oct 2019 – Nov 2021**  
**Oct 2014 – Oct 2019**  
**Mar 2010 – Oct 2014**

## EXPERIENCE

### Construction

- Analyse the need, design, and build the Project's Store/Warehouse required to properly receive, preserve, and store all the project's required material, consumables, and tools.
- Build Field Work Shops for pre-assembly, bending, pipe spooling (threading & grooving), supports fabrication & welding, and painting & insulation works.
- Read and comprehend project's drawings, technical specifications, contract & P&IDs to identify risks, detect flaws & defects and to ensure coordination between drawings.
- Liaise with the Project's Stakeholders (Project Designer, Company's Engineering Teams, Design Review Consultant, Project's Consultant and Client Representative) to review the project's conceptual and detailed design and technical specifications, comply to all raised comments and secure approval of client on the design.
- Lead / Support Engineering Team to resolve design, engineering, and coordination issues and to generate the shop drawings and ensure it is in line with the approved material submittals and approved design and contract signed.

- Develop and maintain healthy/fruitful relations with project's team and efficiently interacts with the client/consultant, subcontractors, and suppliers on site related matters and to manage the process of attaining necessary consultant/authority approval needed to be ahead of schedule.
- Close follow up with client/consultant and engineering to secure the approval on the project's shop drawings and material submittals.
- Create the Bid Packages for the works to be subcontracted and prepare the related BOQs and finalizing the scope of work and DOR for subcontractors.
- Review the technical proposals received from suppliers and vendors and create the related technical comparison sheet and to help selecting the best proposal which is mostly complying with the project's specs which achieves the client's requirements and will be in line with the project's contract and approved vendor list.
- Prepare Material Take Offs for all 1<sup>st</sup> & 2<sup>nd</sup> fix items (HVAC Ducts and Accessories, U/G & A/G Piping, fittings including FF & Chilled Water, valves and supports, painting, insulation, cladding and pipe labelling and flow direction arrows) to share with Procurement to float the RFQs to the suppliers.
- Prepare and submit for approval the material submittals, comply to comments, issuing material requisitions, follow up the delivery of the ordered materials, interface with suppliers to verify materials received, and control the storage & the inflow/outflow of site store materials.
- Coordinate with all vendors/suppliers to comply with their contractual commitments in delivering the material and technical deliverables on time to site.
- Follow up with QA/QC to prepare method statements for construction and T&C activities.
- Provide technical assistance to project team related to the scope, schedule, work and area priorities, P&IDs, ITPs, PTS and provide them with the latest approved shop Drawings and Documents required for work execution.
- Submit RFIs to elicit and specify the requirement of client.
- Define the Boundaries for the hydrostatic packages prior to documentation preparation.
- Directly manage and execute the works of the team & subcontractors and distribute the planned activities to the erection groups and monitor their achieved work, productivity & efficiency, track their work progress, and ensure that the works assigned are completed on time by issuing to the teams daily works orders.
- Collecting the requirements of construction teams and managing the additional material, consumables, testing & lifting equipment, and tools orders.
- Coordinate with all construction teams on site to ensure work front to avoid idleness of manpower and equipment and minimize material wastage.
- Conduct site meetings & walkdowns with project and subcontractors' teams to define work sequence/scope for the next week/month, update schedule, ensuring proper coordination and to highlight issues of concern (quality, safety, time, and cost).
- Perform Inspection and witness tests of works in progress on a continuing basis as per stated in approved ITPs and close all comments raised during inspections.
- Complete Final P&ID checks and close all snag list and punch items prior start of T&C works.
- Create Red Marked as Built Drawings and required field sketches and material lists for all the systems after its completion.

## **Project Management & Control**

- Assist the planning team in developing and maintaining the base line construction schedule and coordinate with the cost control in reviewing and signing of the budget.
- Prepare the Project's Deployment Plan (forecast required staff, manpower histogram(non-staff), equipment, and tools) required to complete the project within the approved project schedule and secure the management's approval and update the plan on monthly basis.
- Review and initiate all subcontractor agreements ensuring that the cost, scope, terms, and conditions are in line with the company's contract conditions.
- Optimizes the usage of the allocated resources (manpower, material, equipment, tools, subcontractors etc..) to ensure completion of project within approved targeted time, cost, quality, specs, and safety requirements.
- Follow material orders by ensuring advance payments, Bank Guarantees and LC are issued.
- Initiating and assist in preparation of all site-related forms & logs and ensure its timely submission and approval, including materials/tools & equipment requisitions, daily/weekly & monthly progress reports, delivery notes, staff/non-staff/equipment/tools timesheets, Material on site reports, subcontractors' progress invoices, Variation Orders, Extension of time, RFIs, interim payments, contractual letters, and submittal & drawings logs.

- Team up with the Company leaders and project team to oversee the project progress, control the schedule, budget, and cost to complete and improve the efficiency of the site performance to reduce, limit the overrun cost and expedite the completion of the closeout activities.
- Identify & value the risks & opportunities and build strategies against these risks (exploit, transfer, eliminate, avoid & mitigate).
- Assist Cost control in preparation of the MCR (Monthly cost report) necessary to determine the expected margin by the end of the project, these activities include but not limited to : register risks & opportunities and incorporate their impact on the overall cost and schedule, record the actual cost incurred, identify the cost to complete, forecast the monthly revenue, report the monthly BCWP (budgeted cost work performed), and submit the material on site report and variation logs.
- Monitors, enhances, and verifies productivity rates as required by the Planning and Cost Control Departments and raises concern if such rates are not realistic.
- Submit NOV letters against client's site instructions/change requests, submit related scope control change form and support the cost control teams to prepare the Variation Order with detailed breakdown of cost and time impact.
- Liaises with contract administrators before submitting official letters to client/ consultant.
- Attend Close out meetings with the Client and the Suppliers to discuss the status of the remaining payments and expediting the release of the remaining PACs and FACs.
- Collect & register all the lessons learned from the project team and submit by the end of the project to help to incorporate it in the pricing and estimating activities of the new projects.

## Commissioning

- Prepare the planning schedule for the Start up and commissioning activities for the project's systems in coordination with the planning team.
- Prepare, review, and update the T&C Method Statements, ITPs, checklists, procedures, and other project's related Documents (O&M Manuals, Training Manuals, Drawings, P&IDs, SLDs, Contracts etc..) for all the Systems and ensure that documentation and procedures are in place and approved.
- Liaising with construction team and provide technical support for the proper installation of the specialty items to avoid rework.
- Liaise with the construction team for the readiness of testing activities, provide them with technical support and guide them for not to fall behind the schedule and ensure they are working as per the project's priority.
- Conduct Site walkdowns to assure that the systems' installations follow the project's specs, P&ID, design, and shop drawings prior handing over and commencing the T&C activities.
- Ensure proper inspection documentations are prepared and submitted to Client prior commencing any related T&C activities.
- Engage & involve the key stakeholders (Client's Inspectors, and consultants, system vendors and the commissioning & construction teams) by conducting daily meetings, discussions and sharing opinions into the major planning and execution activities, highlighting delays or constraints affecting the progress and help resolving all the outstanding issues affecting the progress.
- Follow up the energization activities and schedule and declare systems to be LIVE/under TEST and ensuring commissioning activities/energize of systems are carried out in a safe controlled manner and that approved LOTO Systems are in place and implemented.
- Writing reports and technical documentation as necessary.
- Liaise with Vendors' technical advisors and teams to investigate for problems and diagnose and troubleshoot and repair the faults.
- Prepare the required shutdown plans and required permits prior the start of the T&C activities.
- Carry out and witness the commissioning tests procedures and milestone activities and raise inspection requests for work completed.
- Update the Progress to the planning and cost control departments.
- Coordinate with vendors to provide the training for the maintenance and operative staff where appropriate.
- Following up requirement documents for handing over with technical team.

## OTHER EXPERIENCE

### **Operations Engineer, AVERDA – LEBANON Jul 2009 - Mar 2010**

Managing the operation of SUKOMI Waste Treatment and Recycling Plant and supervising a team of 10 Foremen and over a hundred workers by ensuring their proper productivity, efficiency, and appearance of subordinates. Working according to the adopted operational plan to reach their daily production targets. Monitoring the Performance and Efficiency of the teams and submitting daily reports to the Plant Manager. Enforcing and adhering to proper safety policies, measures, and practices. Monitoring and supervising the process and the adopted operational plan inside the Plant and calling upon maintenance for equipment repair by the concerned technical personnel via the corresponding Managers.

### **Sales Engineer, KARL STORZ Jul 2008 – Aug 2008**

Learning about KARLSTORZ's competitors in the Endoscopy Field, technical Representation of the Product, Interpreting the Clients' Requirements, Quotations Preparation and managing their queries.

### **Trainee Mechanical Engineer, SABECO Contracting May 2007 – July 2008**

Site Visits, HVAC, FF, Drainage & Water Supply Shop Drawings, Execution and Supervision

## HSE TRAININGS

I had in house trainings in the following: Basic Fire Fighting (BFF), Near Miss reporting Investigation (NMAI), Job Safety Analysis, Hazard Identification and Control, Risk Assessment Training (RAT), Lifting and Rigging, Permit to Work-Lock Out Tag Out (PTW-LOTO), Gas Testing, Construction Safety, Electrical Hazards Prevention Program, Heat Stress Awareness (HSA), Scaffolding Safety, Supervisor's Safety, Safety in Tools, Emergency Evacuation Response and Fire Drills, Working in Confined Spaces and Slips, Trips and Falls Prevention, Lifting Technic and Basic First Aider.

## MEMBERSHIPS

1. Project Management Institute
2. Saudi Council of Engineers
3. Lebanese Architect and Engineering Order

## SELF PACED DEVELOPMENT

- Certified Cost Professional – AACEI
- Business management (Value Creation, Finance, Marketing, Sales, Customer Service & Business Development).
- Micro-Economics, Macro Economics and Finance & Capital Markets.
- Geo-Economics & Political Science.
- Business Modelling, Business Plan & Feasibility Studies.
- Public Speaking, Read Body Language, Presentation Skills and Leadership.
- Web Development (HTML, CSS, JS, jQuery, Bootstrap, AngularJS, MySQL, PHP, Laravel & WordPress).
- ODOO ERP Software