



# SHABIR MOHAMED.A PMP®, LEED AP® BD+C, CFPS®

MECHANICAL LEAD - MEP

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## CERTIFICATIONS

- Certified **Project Management Professional (PMP)®**
- Certified **Fire Protection Specialist (CFPS)®**
- Certified **LEED AP® Building Design + Construction**
- Certified **LEED® GREEN ASSOCIATE**
- Qatar **UPDA** certified Engineer – **Grade A**
- Qatar Civil Defense certified Engineer (**QCDD**)
- KAHRAMAA Approved Engineer
- Certified Commissioning specialist – Grade 3(**CSA**)
- Safety Training - **IOSH**

## EDUCATION

**Bachelor of Engineering (BE)**  
Mechanical Engineering, 2003

**PERIYAR UNIVERSITY** - Salem,  
Tamil Nadu.

## BUILDING CODE

Knowledge in building codes and standards like ASHRAE, SMACNA, DW144, NFPA, IPC, BS, ANSI, ASTM, ASME, etc. and Local regulation authority (Civil Defense, Electricity and Water)

## PROFESSIONAL SUMMARY

Dynamic and results-driven **Senior Mechanical Engineer** with over **20 years of proven experience** in the **MEP industry** across the **Gulf region**. Expertise in Estimation, Procurement, Installation, Testing, Commissioning, and Maintenance of **Mechanical, HVAC, BMS, Fire Fighting, and Plumbing** systems. My experience spans diverse project environments, including Hotel, Airport, Sea-port, Hospital, High-rise building, Residential, Infrastructure, Commercial, and Industrial settings, all delivered through fast-track methodologies. Throughout my career, I have consistently ensured alignment with local approval authorities and international standards. Recognized for delivering quality-focused, cost-effective engineering solutions while ensuring full regulatory compliance.

## TECHNICAL SKILLS

- Heat load calculation by Carrier HAP 6.0 software
- ESP calculation for HVAC units
- Fresh & Exhaust air calculation
- Plumbing design calculation
- Hot water heater capacity calculation
- Water supply demand calculation & pipe sizing
- Drainage system pipe sizing
- Pump Head Calculations of all type of pumps like Chilled water, Water Booster, Hot Water, Transfer, Filtration, Storm water and Sewage lift pump
- Commissioning of mechanical controls and Building Management System (BMS)
- Duct sizing
- Chilled water pipe sizing
- Installation and commissioning of Chillers, Cooling tower, Primary and Secondary Chilled water Pump
- Stairwell pressurization calculation
- Commissioning of firefighting systems such as Fire pump, FM-200, Pre-Action, Foam & Aerosol system
- Estimation
- Commissioning of Car park ventilation fan system
- Maintenance and Handing over of all the Mechanical system in MEP
- Design Verification of Mechanical MEP Design

## WORK EXPERIENCE IN GCC

- Since September 2011  
**M/s. Construction Development Company, Qatar**  
One of the leading Civil and MEP contracting companies in Qatar region and Specializing in execution of multi-million dollar projects including hotels, High-rise buildings, ports, and commercial towers
- March 2010 to August 2011  
**M/s. ETA M & E, ETA ASCON STAR Group, Abu Dhabi, UAE**  
An ISO 9001 certified Building Engineering Services Contractor evolved as one of the largest companies in the Gulf countries and India.

## LANGUAGES

**Tamil:** Native Language

**English:**



Advanced

**Malayalam:**



Upper Intermediate

**Hindi:**



Intermediate

**Arabic:**



Elementary

## OTHER SKILLS

- MS Office programs
- Bluebeam Quantity takeoff tool
- AutoCAD
- Primavera P6
- HAP software
- McQuay Software
- Duct ESP Software
- QMS and EMS Procedures
- ISO Procedures
- HSE Procedures
- Authority approval submission & inspection procedures

## ADDITIONAL INFORMATION

- Visa Status: Engineer visa with NOC
- Nationality: Indian
- Marital Status: Married
- Date of Birth: 10/05/1981
- Passport No: X7110455
- Valid Qatar Driving License

- June 2005 to December 2009  
**M/s. Thermo L.L.C, Dubai, UAE**

An ISO 9001 certified Building Engineering Services Contractor. Played a key role in execution and delivery of MEP systems for residential, commercial, and healthcare developments

## MAIN RESPONSIBILITIES

- Study and review the scope of work, drawings, specification, Client requirements, etc. from the tender documents for proper estimating works
- Pricing the material and labor cost of each BOQ items in the pricing comparison sheet by using the various supplier quotations and a pre-determined manpower production rates
- Prepare Technical material submittal, Method statement, Shop drawings from the design drawings as per the standards and regulation and submitting to consultant for Approval
- Initiate purchase order to satisfy specified requirement of the project
- Inspection of material received on site to ensure conformity with approval and project requirement.
- Monitor the availability of the types and quantities of material required on site.
- Day to day supervision of site works, quality, and quantity of workmanship as per the planned schedule.
- Coordinate Mechanical service installation at the site with other services, Structural and Architectural requirements.
- Raise RFI to the consultant for any incomplete information from the specification and drawings and Raise variation for any additional work.
- Coordination with Gov. Agencies for getting statutory approvals (Civil Defense / ASHGHAL / KAHRAMAA & Local Authority approval)
- Liaison with main contractor, Consultant & Client
- Supervision, Installation and commissioning of Chillers, Cooling tower Primary and Secondary Chilled water Pumps, Circulation Pump, Run around coil Pump, Pressurization Unit, FAHU's, FCU, Heat Exchangers, Split Units, Package Units, VRF units, Cold room DX units, VAV, CAV, Venturi air volume box, Chemical treatment system with Automatic and Manual Dosing Pot, Chilled water piping System, DX piping, Air Separator, Air Curtains, Smoke venting system, Car park & Atrium ventilation system, Ventilation Fans, Attenuators, Various type of Ducting (GI Duct, Aluminum Duct, Black Steel Duct, Stainless Steel Duct, Pre-insulated Duct and Fabric Duct), Insulation ( Fiber Glass, Rubber and Rockwool insulation)
- Supervision, Installation and commissioning of Plumbing Service (uPvc pipe, PP-R pipe, Pex pipe, Copper pipe, DI pipe, GRP pipe, CPVC Pipe, Clay Pipe, HDPE pipe with Butt fusion and Electro Fusion), Cold Water System, Hot water System(Boilers), Drainage system, Water Filtration System, Calorifiers, Booster Pump, Transfer Pump, Filtration Pump, Softeners, Hot water pump, Water Heaters, Sump Pump, Sewage lift pump, RO system, Odor control units, TSE plants/Grey water system and Water Tanks.

- Supervision, Installation and commissioning of Fire Fighting Service, Sprinkler( Upright, pendent, ESFR, CMSA, CMDA, ELO, In-rack-sprinklers), Extinguishers, Wet and Dry piping, Fire Hose Reel and Cabinet, Landing Valve, Zone Control Valve, Alarm Check Valve, Breaching inlets, Deluge System, Foam Sprinkler system and Clean agent system(FM200/NOVEC/Inert), Kitchen Suppression system(ANSUL), LPG, Fuel System, Cold Water System, Hot water System, Drainage system, Water Filtration System, Installation of Electric Calorifiers, Booster Pump, Transfer Pump, Filtration Pump, Filtration pump, Hot water pump, Water Heaters, Sump Pump, Fire Pump, Sewage lift pump, Odor control units, TSE plants/Grey water system and Water Tanks.
- Preparing and submitting the Operational maintenance manuals to Consultant and Client.
- Coordinate with all services and make As-Built drawings for final submission.
- During the Testing, Commissioning and Maintenance period, involved in troubleshooting to solve the related problems.
- Prepare the preventive maintenance schedule and lead the maintenance teams for operation and maintenance work as per planned schedule.
- Preparation of annual maintenance contracts for HVAC - MEP and facilities management in general.
- All works related to successful testing, Commissioning and Hand over the Mechanical Systems to client/Stake holder.

## **PROJECTS CARRIED OUT IN GULF (QATAR)**

- Project : **HIAEP-0063 Cargo Bridging Facilities & AVI Construction**  
Client / Consultant : Qatar Company for Airports Operation & Management (MATAR)/ M/s DAR/AECOM
- Project : **Five Star Hotel & Residence Apartments at Marsa Arabia- The Pearl Qatar**  
Client / Consultant : M/s.Alfardan Properties/ M/s Dar
- Project : **Burj Alfardan Tower (3B+GF+MZ+28+Roof + Machine Roof) Lusial COM13**  
Client / Consultant : Alfardan Properties/ M/s Arab Engineering Bureau
- Project : **New port project package NPP00047, Mesaieed**  
Client / Consultant : New Port Project Authority / M/s AECOM/ M/s.Worley Parsons
- Project : **Qatar Foundation Offsite Warehouse and Distribution Centre, Industrial Area**  
Client / Consultant : M/s Qatar Foundation/ M/s ASTAD Project Management / M/s Gulf Engineer

## **PROJECTS CARRIED OUT IN GULF (UAE)**

- Project : **New Service yard MEP works for Residential Complex at Jebel Hafeet, Al Ain**  
Client / Consultant : M/s Department of Presidential Affairs / M/s Al Salaam Consulting Architects Engineering & Planners
- Project : **Ruwais Housing Complex Expansion Phase-III Package 3 Infrastructure works**  
Client / Consultant : M/s ADNOC / & M/s Altorath Engineering consultants/ M/s Mushrif National Construction L.L.C.
- Project : **Ruwais Housing Complex Expansion Phase-III Construction of New Hospital**  
Client / Consultant : M/s ADNOC / & M/s IBA
- Project : **G + 7 + Mechanical Room + Roof Marriot court yard 5-star Hotel**  
Client / Consultant : M/s Union Properties / M/s Confluence / & M/s Burrth Hill
- Project : **3B+G+34 Jumeirah Lake Tower Plot – U1 & 3B+G+39 Jumeirah Lake Tower Plot – U2**  
Client / Consultant : M/s Deyaar / M/s DAR / & M/s IBA

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## **WORK EXPERIENCE IN INDIA**

- Worked as a Production Engineer cum Quality Controller in M/s Plast Tech Engg. (ISO 9001:2000) Chennai-600041. (From May 2004 to April 2005).
- Worked as a Production Supervisor in M/s Unitech Plasto Components Pvt Ltd (ISO 9001:2000) Chennai-600041. (From June 2003 to April 2004).