

# JAVAD PT, PMP®

## MECHANICAL TECH. ENGINEER | MECHANICAL DESIGN ENGINEER |

### MECHANICAL ENGINEER

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<https://www.linkedin.com/in/javad-pt-pmp®-pmi-91089139/> | Jeddah, KSA

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### PROFILE

**Mechanical Technical Engineer** with 11+ years of proven expertise in MEP project management, mechanical system design, installation, supervision, quantity surveying, and quality assurance for high-rise, non-high-rise, and large-scale infrastructure projects. Certified **PMP** (Project Management Institute) and registered with the **Saudi Council of Engineers**. Specialized in **HVAC, plumbing, and firefighting systems**, with strong focus on compliance with international codes and standards. Proficient in **HAP, ELITE, and AutoCAD**, and familiar with Autodesk Revit and Navisworks. Recognized for successfully delivering complex projects on time, within budget, and to the highest quality standards, supported by strong technical knowledge of mechanical systems, safety regulations, and industry best practices.

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### PROFESSIONAL EXPERIENCE

#### 1. AL REYADHA ENGINEERING CONSULTING COMPANY

Mechanical Technical Engineer

March 2022 to Present

Project: Telal Al Ghuroob High rise buildings Project, Jeddah, KSA.

#### 2. AL HUSSAN PROFESSIONAL ENGINEERING CONSULTING COMPANY

Mechanical Technical Engineer

November 2021 to February 2022.

##### Projects

- Al Rajhi BANK – Al khobar, KSA.
- SANKYU production and training center- Jubail, KSA.
- ADWAN Warehouses - Riyadh, KSA.
- NAPESCO-Riyadh, KSA.
- JOTUN Warehouses - Riyadh, KSA.
- Multiple Residential and Commercial Building Projects.

#### 3. SAUDI BINLADIN GROUP, HARAMAIN DIVISION - MAKKAH, K.S.A

Mechanical Technical Engineer

September 2018 to January 2021

Project: King Abdullah Bin Abdulaziz Project - Shamiyah Haram holy mosque third Expansion Project, Makkah.

#### 4. ENSOLCO ENGINEERING PVT. LTD.- CALICUT, INDIA

Mechanical Design & Technical Engineer

July 2016 to August 2018

##### Projects

- HAMAD PORT PROJECT (NPP 0032, COMMERCIAL TERMINALS AND INFRASTRUCTURE BUILDINGS) in QATAR. Assisted the MEP main contractor (HBK Qatar - AFCONS Joint venture) at project site for shop drawing preparation and submission to the consultant AECOM, for obtaining approved status. Contractor Submittal Review Comments (CSRC) form was also prepared.
- G+6P+20 Floors + Helipad, Ajman. U.A.E (30k Square meter). Architect: Al Nakheel UAE.
- G+5P+15 Floors, Ajman, U.A.E (300k Squire meter). Architect: Proarc UAE.
- G+4P+12 Floors, U.A.E (100K Squire meter ). Architect: Proarc UAE.
- Safari Mall, Ajman. Architect: Proarc UAE.

- G+5 Commercial & Residential (4k Squire meter). Architect: Mazaya Consulting Engineers Ajman,UAE.
- Tarique Villa @ Sharjah (2.5k Squire meter). Architect: Judson Associates Dubai,UAE.
- Watnan Mall Qatar. Re design of existing drainage system.
- Unani Factory @ Mukkam, 2b+g+2floors. Architect: Lais Associates Mukkam, India.
- Hotel @ Madikkeri, g+2 floors. Architect: Arif & Associates Calicut, India.
- Garden Mall @ mukkam. g+3 floorS. Architect: Skylight builders Mukkam, India.
- Resort @ Arippara. Architect: Skylight builders Mukkam, India.
- Cuties Clinic @ Calicut, B+G+3 Floors. Architect: Shabeer Saleel Associates Calicut, India.
- Vadhihusna Auditorium @ Vattoli, Architect: Arif & Associates Calicut, India.
- MES School @ Palanghad, G+3 Floors. Architect: Arif & Associates Calicut, India.
- Multiple Residential and Commercial Building Projects.

## 5. TEKTON MEP CONSULTANTS - CALICUT, INDIA

Mechanical Design & Technical Engineer

June2014 to June2016

### Projects

- Al Abeer Educity, Hospital project, B+G+8 Floors+ Helipad. Area 45k Square meter Architect: Form Plus Calicut,India.
- Kanhangad Hospital, B+G+3Floors, Architect: Indland Builders Kanhangad,India.
- Geand Cosmo Mall Kannur. G+4FLOORS, Architect: U. Muhammed & Associates Kannur,India.
- Relax Mall Kannur,3B+G+4 Floors, Area Architect: U. Muhammed & Associates Kannur,India.
- Darmasala Ayurvedic Resort Kannur, Architect: Space Art Calicut,India.
- Sree Bhadra Residency Guruvayoor, B+G+4 Floors, Architect: Sandhya & Associates Calicut,India.
- Gender Park Cultural Center Calicut, Architect: Space Art Calicut,India.
- Mahe Convention Center, Kannur, Architect: U. Muhammed & Associates Kannur,India.
- Movin Villas Calicut, Architect: Movin Calicut,India.
- Fruitful Homes, Calicut, 16 LUXURY VILLA PROJECT. Architect: Space Art Calicut,India.
- R.P Flat G+4Floors, Architect: U. Muhammed & Associates Kannur,India.
- Multiple Residential and Commercial Building Projects.

### **DUTIES AND RESPONSIBILITIES HANDLED**

- Designed HVAC, plumbing, and firefighting systems for high-rise towers, commercial complexes, residential developments, hospitals, and infrastructure projects in compliance with ASHRAE, NFPA, IPC, and SMACNA standards.
- Performed heat load calculations using HAP software for accurate HVAC system sizing.
- Conducted duct sizing, chilled water pipe sizing, ESP calculations, and pump head/pressure drop calculations to ensure efficient system design.
- Designed drainage, stormwater, and water supply systems, including septic tanks, water tanks, and manholes for large-scale projects.
- Developed firefighting network designs, including sprinklers, hydrants, hose reels, FM200, NOVEC, and clean agent systems.
- Prepared and reviewed concept, schematic, detailed design, and as-built drawings, ensuring alignment with project specifications and client requirements.
- Created shop drawings, coordination drawings, sections, and detailed installation drawings using AutoCAD.
- Coordinated multi-disciplinary design integration with structural, architectural, and electrical teams to resolve clashes.
- Conducted hydraulic calculations for firefighting pumps, sprinkler layouts, and hydrant networks.
- Prepared equipment selection schedules for AHUs, FCUs, chillers, pumps, exhaust fans and firefighting pumps.
- Developed sizing and selection of water heaters and plumbing fixtures.
- Performed value engineering studies to optimize mechanical systems for cost-effectiveness and energy efficiency.
- Prepared Bill of Quantities (BOQ), Bill of Materials (BOM), and Material Take-Offs (MTOs) based on IFC drawings.
- Reviewed and responded to technical submittals, RFIs, and consultant comments to close design gaps.
- Participated in design review workshops, technical presentations, and consultant/client meetings to ensure compliance and approval.
- Designed smoke management and pressurization systems for safety and code compliance in high-rise buildings.
- Prepared schematic diagrams and flow diagrams (P&IDs) for all mechanical systems.

- Developed equipment layouts, plant room designs, and mechanical shaft space planning for effective coordination.
- Reviewed tender documents, IFC drawings, and specifications to support bid evaluations and project execution.
- Conducted feasibility studies and system performance analysis to recommend alternative solutions.
- Supervised and inspected the installation, modification, and commissioning of HVAC, plumbing, and firefighting systems on-site.
- Submitted and coordinated Material Approval Requests (MARs), Material Inspection Requests (MIRs), and Work Inspection Requests (WIRs) with consultants for approval.
- Reviewed installation inspections, hydrostatic tests, pressure tests, and insulation works in line with ITPs and specifications.
- Prepared installation method statements and ITPs with QA/QC representatives for consultant approval.
- Monitored storage, handling, and site installation quality of materials and equipment, ensuring compliance with project and manufacturer standards.
- Issued and tracked RFIs, NCRs, Site Instructions (SI), and Site Observation Reports (SOR) to resolve site issues.
- Verified installed quantities and site progress for interim payment certificates and contractor claims.
- Coordinated testing and commissioning activities, including balancing, flushing, functional testing, and system handover.
- Inspected concealed MEP services in shafts, risers, and voids prior to closure to ensure compliance.
- Attended progress and technical meetings with consultants, contractors, and clients to resolve site challenges.
- Maintained inspection logs, daily/weekly/monthly reports, and QA/QC records for mechanical systems.
- Ensured adherence to project quality plans, HSE standards, and company procedures.
- Assisted procurement by preparing material requisitions and vendor evaluations based on approved specifications.
- Supervised installation and testing of pump rooms, underground tanks, firefighting systems, and chilled water networks.
- Reviewed shop drawings and material submittals against IFC drawings and project specifications.
- Conducted surveillance inspections for material storage, fittings, consumables, and temperature-sensitive items.
- Coordinated with consultants for final approvals, snag list clearance, and project handover documentation.

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### SOFTWARES

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| <ul style="list-style-type: none"> <li>• Hourly Analysis Program (HAP).</li> <li>• Mcquay Duct &amp; Pipe Size.</li> <li>• AutoCAD.</li> <li>• Auto Desk Revit.</li> </ul> | <ul style="list-style-type: none"> <li>• MS Office.</li> <li>• Elite Fire.</li> <li>• Elite Ductsize.</li> <li>• Navisworks.</li> </ul> |
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### EDUCATION

- **Graduation (B. Tech) in Mechanical Engineering**  
Government College of Engineering, Kannur.  
University of Kannur, Kerala, India.  
Graduation Completed in April-2014 with first class.

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### CERTIFICATIONS

- **PMP Certification from Project Management Institute (PMI), Reg NO: 4030668**
- **Saudi Council of Engineers (SCE), Reg No: 910651**
- **Professional Training Program for HVAC System Design & Revit MEP**

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### PERSONAL DETAILS

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| <ul style="list-style-type: none"> <li>• <b>Iqama No.:</b> 2461242972</li> <li>• <b>Iqama Status:</b> Transferable</li> </ul> | <ul style="list-style-type: none"> <li>• <b>Nationality:</b> Indian</li> <li>• <b>Marital Status:</b> Married</li> </ul> | <ul style="list-style-type: none"> <li>• <b>Date of Birth:</b> 29-Oct-1991</li> <li>• <b>Driving license:</b> Available</li> </ul> |
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### LANGUAGES KNOWN

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| <ul style="list-style-type: none"> <li>• <b>English - Fluent</b></li> <li>• <b>Arabic - Intermediate</b></li> </ul> | <ul style="list-style-type: none"> <li>• <b>Hindi – Intermediate</b></li> <li>• <b>Tamil – Intermediate</b></li> </ul> | <ul style="list-style-type: none"> <li>• <b>Malayalam – Native</b></li> </ul> |
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