

# ABDUL AKRAM MOHAMMAD, (PMP)<sup>®</sup>

Senior Mechanical Engineer

Saudi Council of Engineer – Member



## CONTACT DETAILS



+966- 590131259 /539279741



maakram786@gmail.com

## PERSONAL DETAILS

**Civil status** : Married

**Nationality** : Indian

**Language** : English, Arabic, Hindi & Telugu

**Iqama** : Transferable

**Driving license** : KSA, INDIA

**Nationality** : Indian

## PROFESSIONAL PROFILE

Accomplished Senior Mechanical Engineer with over 15 years of proven expertise in executing high-value MEP works across metro/railway, infrastructure, and high-rise construction projects in KSA, UAE and India. Recognized for delivering complex mechanical systems, including HVAC, BMS, TMCS, and SCADA, with precision, efficiency, and compliance. Adept at leading cross-functional teams, managing technical coordination, and optimizing design and execution to meet tight project timelines. PMP certified with hands-on experience in design review, testing & commissioning (T&C), stakeholder engagement, and quality control.

Well-versed in international standards and local regulations, with a consistent track record of ensuring projects meet or exceed client expectations. Proficient in project lifecycle management from initial feasibility studies and design, to procurement, execution, and final handover. Expert in coordinating with multidisciplinary teams including civil, electrical, architectural, and external stakeholders. Committed to continuous improvement and cost-effective engineering practices that reduce rework and increase efficiency. Demonstrated ability to develop junior engineers and lead teams through high-pressure environments with a focus on quality, safety, and innovation.

### Core Competencies:

- MEP Execution (Metro/Rail, Buildings, Infrastructure- HVAC, Tunnel Ventilation, Fire Protection)
- Mechanical Systems Integration (TMCS, BMS, SCADA)
- Design Coordination & Value Engineering
- Testing & Commissioning T&C- (TVF/TBF, WMS, HVAC, Plumbing)
- Quality Assurance & Compliance (International Standards)
- Technical Submittals & Shop Drawing Review
- Risk Management & Mitigation
- Cross-functional Team Leadership
- Budgeting & Cost Optimization
- Stakeholder & Consultant Liaison
- As-built coordination
- Preventive & Predictive Maintenance

## KEY PROJECTS

**Riyadh Metro- KSA** - Project comprising of six metro lines with a total length of 176 kilometers and 85 stations. Led the execution of all construction activities related to MEP systems, including the testing and commissioning (T&C) of mechanical equipment. Played a key role in the successful completion of Lines 5 and 6, covering both underground and elevated metro stations.

**Cleveland Clinic- UAE** - CCAD-The Cleveland Clinic Abu Dhabi is a multi specialty hospital located in Abu Dhabi, United Arab Emirates. Led and supervised the installation, testing, and commissioning of key mechanical systems. Played a pivotal role in the successful delivery of MEP works.

**Park view hotel- UAE** - Dubai (UAE)- Led the installation of Mechanical systems.

## WORK EXPERIENCE 5

**POSITION:** Sr. Mechanical Engineer

**Duration:** March 2018 – Present

**Company:** FCC Industrial (Riyadh Metro)-KSA

- Spearheaded the design and implementation of complex mechanical systems, resulting in a 100% compliance rate with international codes and client-specific requirements.
- Successfully delivered project milestones ahead of schedule by proactively managing engineering workflows, coordinating with planning and cost teams, and optimizing resource allocation.
- Enhanced project quality and reduced rework by 25% through rigorous review and validation of drawings and technical specifications, ensuring early detection of design discrepancies.
- Led the testing and commissioning of major mechanical systems in coordination with OEMs and third-party vendors, achieving first-pass success rates in functional performance tests.
- Streamlined material procurement and reduced delays by collaborating closely with logistics and procurement teams, ensuring all mech. materials met project specifications before deployment.
- Resolved high-priority design and execution challenges through active participation in client and contractor meetings, minimizing project risks and preserving critical timelines.
- Achieved seamless project startups by ensuring the timely completion of all critical deliverables, including as-built documentation, O&M manuals, T&C reports, and equipment handover packages.
- Elevated stakeholder confidence and project transparency by delivering high-impact technical reports and presentations, facilitating informed decision-making at key project stages.

## WORK EXPERIENCE 4

**POSITION:** MEP TECHNICAL COORDINATOR

**Duration:** March 2015 – February 2018

**Company:** FAST Consortium (Riyadh Metro)-KSA

- Coordinated closely with architects, engineers, contractors, and key stakeholders to ensure seamless integration of MEP systems into overall project design.
- Reviewed and validated MEP design plans and specifications to ensure compliance with international codes, standards, and project-specific requirements.
- Actively participated in progress and coordination meetings with owners, consultants, and contractors, providing updates, clarifying technical issues, and aligning efforts with project milestones.
- Ensured timely identification and resolution of site-level challenges, contributing to improved workflow and stakeholder satisfaction.

## WORK EXPERIENCE 3

**POSITION: CONSTRUCTION COORDINATOR**

**Duration: March 2014 – Feb 2015**

**Company: SPC Constructions- KSA**

- Liaised effectively with site engineers and construction professionals to ensure all project activities complied with approved design specifications and engineering standards.
- Maintained regular communication with clients, contractors, consultants, and government authorities to secure necessary permits, licenses, and regulatory approvals.
- Oversaw the testing and commissioning (T&C) process in coordination with Design & Build contractors, ensuring timely completion and smooth handover of assets.
- Ensured successful transition from construction to operational readiness through structured commissioning schedules and close collaboration with all project stakeholders.
- Collaborated with finance teams to manage and monitor project budgets, including cost forecasting, expense tracking, and financial reporting.

## WORK EXPERIENCE 2

**POSITION: PROJECT ENGINEER**

**Duration: Dec 2010 – Feb 2014**

**Company: BESIX (CCAD)-UAE**

- Developed and executed comprehensive project plans, clearly defining scope, timelines, budgets, and resource requirements to align with client objectives.
- Oversaw the design process to ensure full compliance with project specifications, industry codes, and regulatory standards.
- Managed project budgets meticulously, tracked expenditures, and implemented cost-control measures to ensure projects remained within financial targets.
- Directed procurement activities by sourcing and acquiring essential materials, equipment, and supplies in accordance with project timelines and budgets.
- Closely monitored on-site construction activities to ensure alignment with project plans, technical specifications, and established quality benchmarks.

## WORK EXPERIENCE 1

**POSITION: MECHANICAL SITE ENGINEER**

**Duration: May 2010- Nov 2010**

**Company: SRP Enviro Systems Pvt. Ltd.- INDIA**

- Supervised the execution and monitoring of mechanical systems—including HVAC, plumbing, and fire protection—ensuring compliance with approved drawings, method statements, and safety regulations.
- Estimated and allocated required project resources such as manpower, materials, consumables, tools, and equipment ahead of execution phases.
- Reviewed and approved technical submittals and shop drawings submitted by contractors and design consultants for mechanical and plumbing systems.
- Collaborated with cost control and planning departments to prepare accurate daily progress reports and support project tracking.
- Oversaw the complete lifecycle of mechanical system delivery, including testing, commissioning, training of end users, and formal handover to the client.

## ACHIEVEMENTS

- Delivered 6 Riyadh Metro stations ahead of schedule with full T&C completed and zero NCRs.
- Reduced rework by 30% through early-stage clash detection and resolution across mechanical disciplines.
- Spearheaded technical coordination workshops, achieving 40% faster approvals for critical MEP submittals.
- Led the development of a preventive maintenance program that improved system uptime by 25%.
- Supported the development of as-built documentation, O&M manuals, and handover packages, ensuring smooth transitions to operations and maintenance teams post-project completion.
- Played a key role in the T&C (Testing & Commissioning) of vital MEP systems, including tunnel ventilation (TVF/TBF), water mist systems (WMS), and BMS/SCADA integrations across multiple metro stations.

## COMPUTER SKILLS

### Microsoft Office

- MS Word
- MS Excel
- MS Power Point
- MS Outlook (Email)

### Engineering Software

- AutoCAD
- Sketchup
- Navisworks

## TRAINING ATTENDED

- Project Management Professional (PMP) certification
- Risk Management training for construction project planning and execution
- Leadership training for managing project teams and leading organizational change.
- Construction Safety Training
- Railway Operations Training
- Railway Electrification Training
- LEED Certification Training
- Quality Control and Assurance Training

## SOFT SKILLS

- Communication/ Interpersonal Skills
- Time Management
- Strategic thinking
- Teamwork
- Attention to detail
- Leadership, Team Building & Networking
- Training, Research and Analytical Skills
- Adaptability
- Problem solving
- Positive attitude

## EDUCATION

- Bachelors of Technology in Mechanical Engineering – JNT University
- Diploma in in Mechanical Engineering -SBTET with first division.
- S.S.C board of Secondary Education with first division.
- Diploma in Heating Ventilation and Air Condition (HVAC)
- Diploma in Refrigeration and Air conditioning systems (R&A/C)
- Diploma in Hardware Engineering – Netcom Services
- Diploma in Auto Cad – Netcom Services
- Diploma in CNC programming –BHEL

## STRENGTHS

- Proven experience in the construction industry with a strong focus on large-scale infrastructure projects, including metro and rail systems.
- Exceptional problem-solving skills with the ability to identify technical issues, develop innovative solutions, and effectively troubleshoot on-site challenges.
- Advanced project management capabilities, including expertise in planning, scheduling, budgeting, and efficient resource allocation.
- Strong interpersonal and communication skills for effective collaboration with multidisciplinary project teams, stakeholders, and clients.
- Resilient under pressure with a demonstrated ability to deliver high-quality results within tight deadlines and demanding environments.
- Solid technical foundation in mechanical engineering principles, with hands-on experience in system design, analysis, and performance optimization.
- High attention to detail, ensuring accuracy, compliance, and quality across all project phases.
- Effective leadership and team management skills, with the ability to guide and motivate diverse teams toward successful project outcomes.