

Afsal Sait

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Mechanical Design Engineer

918089480236/+919895129291 • INDIA



Personal Details: Birth Place • D.O.B – 23/5/1987 • Indian • Male • Married

Goal-oriented professional with over **10+ years'** experience managing full life-cycle of complex projects within oil and gas and construction industry. Well-versed in ensuring consistent improvement in operational processes and team's performance with a focus on top and bottom line profitability. Demonstrated ability to plan and execute projects with the inclusion of modern construction methodologies. Adept at preparing and reviewing engineering drawings, layouts, technical specifications, and cost estimations for erection commission of plant. Excellent communicator with proven history of rapport building across multi-disciplinary functions. Skilled problem-solver, supporting the achievement of individual and shared goals.

Areas of Expertise include:

- Project Management
- Design Engineering
- As-Built Drawings
- BIM Coordination
- Process & Performance Enhancement
- Procurement & Material Management
- Regulatory Compliance
- Leadership & Staff Development

Professional Experience

Unii Engineering Consultancy • Abu Dhabi, UAE • 03/2020 to 09/2021

MECHANICAL DESIGN ENGINEER/BIM COORDINATOR

Review submitted shop drawings against contract drawings and specifications, local codes and statutory requirements and international best practice as directed by the RE and or Sr. Engineer. Monitor the mechanical works (HVAC System, Plumbing, Fire Fighting System and LPG System) for conformance with the provisions of the Contract Documents and the Procedures manual. Attending to Inspection Requests (IR's) submitted by the contractor and take appropriate action in a timely manner. Performs mechanical quality assurance inspections and Prepare progress reports. Maintain records for daily activities on site including progress photos and ensure they are readily available for inspection as and when required. Prepare surveillance report(s) for deficiencies of work found at site and non-conformance reports (NCR) if required in view of the development of events. Check and ensure effective co-ordination between disciplines related works and all other disciplines. Provide technical input and experiences to resolve any discipline related issues (RFI) on site that may arise. Ensure that Contractor's works are being carried out according to plans, standards, and specifications prior to approving work and progress payments.

Key Accomplishments:

Attend Authorities' inspections such as ADSSC, Abu Dhabi Civil Defence and ADNOC Third Party Inspection

Emsquare Engineering Consultancy • Dubai, UAE • 05/2016 to 02/2020

MECHANICAL DESIGN ENGINEER/BIM ENGINEER

Manage a team of AutoCAD/REVIT draftsman to prepare drawings for all project phases, including space and volume, schematic, detail design, and tender. Coordinate technical discipline BIM development, standard, data requirement as required with the design team BIM Manager. Utilizing Supervise the construction programme along with quality control and recommend corrective actions to the project manager. Review and verify shop drawings and material submittals. Prepare detailed design for complete, HVAC system, air cooled chiller system, water cooled system, district cooling, and VRF. Design and develop detailed drawings for plumbing and drainage. Carry out designing, detailing, and calculation tasks for firefighting system, plumbing, and drainage with the inclusion of various functions. Document the whole process and develop submission document for local authority.

Key Accomplishments:

- Submitted several projects to Dubai authority and got approval without failure.

GULF COAST ELECTROMECHANICAL, LLC • Abu Dhabi, UAE • 08/2013 to 04/2016

MECHANICAL DESIGN ENGINEER

Reviewed contract SOW, specifications, and drawings. Investigated new materials (with cost and supply source) and technologies and collaborated with the suppliers for sourcing and compliance with the agreement. Formulated and planned schedule for projects by utilising MS Project software. Designed ducting networks and layout as per established industrial standards and produced material technical submittals. Carried out engineering calculations for heat, cool load, and ESP and selected HVAC equipment. Arranged and partook in conferences with vendors, purchasers, and inspectors to coordinate in material inspection, standardisation, and procurement. Collaborated with the clients' reps to review and document project progress.

Key Accomplishments:

- Finalised the designs and initiated the projects as per company standards and specifications within set time.

UNIVERSAL VOLTAS, LLC • Abu Dhabi, UAE • 01/2011 to 06/2013

MECHANICAL ENGINEER(HVAC)

Direct the construction team, including site engineers, supervisors, and technicians. Executed and managed companies and customer's ITP and QHSE plan throughout the project. Conducted site inspections with the client and managed pre/commissioning activities. Organised and managed inventory, responded to emergency situations, and documented overall project progress. Drafted method statement, construction documents, testing and commissioning reports, and construction schedules.

Key Projects:

Residential Buildings:

RR3-C10 (G+38) Floor Tower Building ,Najmat Development Reem Island ,Abu Dhabi,UAE(G+4) Orion Holding, Dubai | (B+G+4) Mani Holding, Palm Jumeriah, Dubai | (G+P+5) JVC13MRA009, JAB MOSAISTONE, Dubai | (G+4P+10), Dubai

Commercial/Residential/Retail: (2B+G+12) Key Information Tech., Dubai | Warehouse IC1-WRH-016-17B, Dubai | Labour Accommodation (5991868), Dubai | G+3P+10 Retail & Residential. Bldg. JVC13CMRM002 INFINITE INC | B+G+5P+26 Retail &. Comm. Building JVT07HHRA002 FAMCORP | G+1 Townhouse-3 Villas- JVT06BVIL009 | Warehouse at Ruwaiz Refinery, Takreer | Aviation Training Center (G+3), Abu Dhabi, UAE

EPC/MEP Work: Installation of HVAC System in Packing & Wrapping Building in Borouge, Ruwaiz | Ruwaiz Housing Complex Expansion-Phase III, Glenelg School | Replacement of HVAC System in Sub-stations of GASCO Asab O, Abu Dhabi | HVAC system of IGD-HAP Platform in Umm Shaif Oil Field (USSC)-Abu Dhabi Marine Operating Company (ADMA OPCO) | Replacement of Fire Dampers in AVON Compartments in Zakum Oil Field (ZWSC)-Abu Dhabi Marine Operating Company (ADMA OPCO)

Tendering Works: Replacement of Fire Dampers in AVON Compartments in Zakum Oil Field (ZWSC)-Abu Dhabi Marine Operating Company (ADMA OPCO) | Replacement of A/C Units in Sub-stations of GASCO Asab

Key Accomplishments:

- Advised and supported technicians for technology transfer and assisted technicians, electricians, carpenters, electronic and generator technicians, and plumbers in emergency tasks.
- Accomplished work schedules by establishing methods and procedures.
- Assessed and resolved machine failures and recommend corrective measures to improve.

*Prior Experience as **Trainee Mechanical Engineer** at Chelsea Engineering, Chennai, India, 1/2010 to 1/2011.*

Education & Credentials

MBA in General Management

ANNAMALAI UNIVERSITY | Abu Dhabi, UAE | 2013

B.Tech. in Mechanical Engineering

KERALA UNIVERSITY | Kerala | 2009

Certifications

Attended HVAC Training, Designing & Drafting Course

AutoCAD, REVIT Certification Course (A+)

Certificate for Scheduling & Cost Controlling

Professional Accreditation

Approved Engineer (Yellow Card Holder), Trakhees Authority, Dubai

Society of Engineer Membership Card Holder, UAE

Technical Proficiencies

HAP | AutoCAD & REVIT | MS Office – Project | Block Load | Catia V5

Carrier E20-II Software (HVAC System Design) | Shop Drawings (HVAC System)

Languages: English | Hindi | Malayalam | Tamil

Driving Licence: UAE