



MOHAMMED SALIH

MECHANICAL ENGINEER(MEP)

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Address: Jeddah, Saudi Arabia

Iqama status: Valid and transferable

PROFESSIONAL SUMMARY

Mechanical Engineer specialized in MEP with over five years of expertise in HVAC system designing, estimation, planning, QA/QC, procurement and project planning. Proficient in delivering efficient, reliable, and energy-efficient HVAC solutions that meet project specifications and industry standards. Strong in stakeholder coordination and delivering projects on time with quality and safety compliance.

PROFESSIONAL EXPERIENCE

HVAC Project Engineer

Nov 2023 - Mar 2026

Keybees Technologies, DAIKIN Air Conditioning - Kerala, India

Project: **Nesto Hypermarkets - Nesto Group, India (2500 HP VRV X)**

Key Responsibilities

- Reviewed preliminary drawings, specifications, heat load calculation and tender documents for mechanical scope from consultant.
- Identified technical requirements, project risks and clarification needed.
- Managed and coordinated client and PMC.
- Selected machines, fans, and other accessories.
- Designed HVAC system using ASHRAE Standards and Guidelines.
- Designed HVAC ducts as per SMACNA and DW/144 standards using **McQuay DuctSizer**.
- Designed and implemented **Kitchen Ventilation System** and **Toilet ventilation system**.
- Prepared schematic and shop drawings using Auto Cad.
- Involved in coordination of MEP Systems.
- Conducted material inspections to verify compliance with project specifications and quality standards.
- Provided technical guidance and support to site teams, ensuring smooth execution and adherence to project plans.
- Conducted joint site visit inspections with client to assess project requirements and resolve technical challenges.
- Participated in weekly client meetings, prepared MOMs and tracked action items.
- Overseeing installation processes and conducting testing and commissioning of the system.

HVAC Project Engineer

May 2024 - Mar 2026

Keybees Technologies, DAIKIN Air conditioning - Kerala, India

Project: **Nuvaise Residence, Calicut - Impex Group, India (112 HP VRV X)**

Key Responsibilities

- Reviewed consultant drawing and conducted site visit for analyzing site conditions.
- Identified technical requirements and project risks.
- Selected machines, fans, and other accessories.
- Guided draftsman in detailed drafting of HVAC systems.
- Prepared and submitted BOQ and technical submittal for the project materials in compliance with client specifications.
- Attended negotiation meeting with client.
- Prepared and submitted Material Approval Request and Material inspection Report to PMC.
- Provided technical guidance and support to site teams, ensuring smooth execution and adherence to project plans.
- Participated in weekly client meeting to address project challenges and mitigate risks.
- Monitored work progress and quality of works and coordination with other MEP services.

HVAC Project Engineer

Nov 2023 - May 2025

Keybees Technologies, DAIKIN Air Conditioning - Kerala, India

Project: Mercedes Benz Showrooms - Bridgeway Group, India (100 HP VRV X)

Key Responsibilities

- Reviewed consultant drawing and conducted site visit for analyzing site conditions.
- Identified technical requirements and project risks.
- Performed Heat load calculation by using Carrier HAP.
- Selected machines, fans, and other accessories.
- Designed HVAC system using ASHRAE Standards and Guidelines.
- Designed HVAC ducts as per SMACNA and DW/144 standards using McQuay DuctSizer.
- Performed ESP calculations for AC ducts.
- Prepared and submitted BOQ and technical submittal for the project materials in compliance with client specifications.
- Prepared schematic and shop drawings using Auto Cad.
- Conducted material inspections to verify compliance with project specifications and quality standards.
- Provided technical guidance and support to site teams, ensuring smooth execution and adherence to project plans.
- Monitored work progress, reviewed daily work schedules and ensured the timely completion as per the project timeline.

HVAC Design Engineer

Nov 2022 - Jan 2024

Keybees Technologies, DAIKIN Air Conditioning - Kerala, India

Project: Janatha MRI and CT Scan, Calicut - Janatha Diagnostics, India (128 HP VRV X)

Key Responsibilities

- Designed HVAC systems for MRI facilities and healthcare environments, ensuring precise temperature (20–22°C) and humidity (40–60%) control for sensitive imaging equipment.
- Performed detailed cooling load calculations considering high equipment heat loads, occupancy, and lighting using industry-standard methods aligned with ASHRAE guidelines.
- Engineered dedicated cooling systems for MRI equipment rooms, ensuring 24/7 operational reliability with provision for redundancy (N+1 configuration).
- Designed low-noise ducting and air distribution systems, maintaining patient comfort and preventing airflow disturbance affecting MRI imaging accuracy.
- Coordinated HVAC design with RF shielding requirements, including proper placement of waveguides for duct and pipe penetrations to avoid electromagnetic interference.
- Ensured room pressurization control (positive/neutral pressure) to maintain clean air environment and prevent contamination.
- Selected and sized HVAC equipment including AHUs, FCUs, ductable units, and precision air conditioning systems based on project requirements.
- Integrated HVAC systems with Building Management System (BMS) for real-time monitoring, control, and alarm management.
- Prepared comprehensive HVAC design documentation including layout drawings, schematics, equipment schedules, and BOQ.
- Coordinated with architectural, electrical, and medical equipment teams for clash-free and compliant design execution.
- Reviewed shop drawings, material submittals, and provided technical clarifications during project execution.
- Supported testing & commissioning activities, ensuring system performance meets design intent and healthcare standards.

Junior Design Engineer

Oct 2021 - Nov 2022

Tech Axis Design and EPC - Kerala, India

Project: Outsourcing work of HVAC, Plumbing and Fire Fighting systems under the guidance of Er. Ansar bin Usman Lava, who has 26 years of GCC experience in MEP and Approved Engineer for EMAAR, ADNOC, ASHRAE, ISHRAE.

Key Responsibilities

- Designing and detailed drafting of MEP systems under the guidance of senior design engineers.

EDUCATION

Bachelor of Technology in Mechanical Engineering

August 2018 - May 2021

Mar Athanasius College of Engineering

APJ Abdul Kalam Kerala Technological University - [India](#)

Diploma in Mechanical Engineering

August 2015 - May 2018

Ma'din Polytechnic College

State Board of Technical Education - [Kerala, India](#)

SOFTWARE PROFICIENCY

- AutoCad
- Carrier HAP
- Mc Duct Sizer
- MS Office
- Navisworks
- Familiar with AI tools.

LANGUAGES KNOWN

- English (read,write,speak)
- Hindi (read,write,speak)
- Malayalam (read,write,speak)
- Arabic (read and write)
- Tamil (speak)

SEMINARS AND TRAININGS

- Completed 1 days Training on VRF system by [Fujitsu General, India](#).
- Completed 2 days Training on VRV Alpha by [Daikin Air Conditioning, India](#).
- Completed 1 day online workshop on AI tools.

ACHIVEMENTS

- NSS Volunteer Secretary at MA College of Engineering,Eranakulam.
- Department Event head of National level Tech fest (Takshak'19) during B tech in 2019.

PERSONAL DETAILS

Full Name: Mohammed Salih Chukkan

Date of Birth: 03/04/1997

Marital Status: Married

Nationality: Indian

Iqama Status: Valid and transferable

DECLARATION

I hereby declare that all the information furnished above is absolutely true to the best of my knowledge and best of my understanding.

Mohammed Salih