


MOHAMMED SUFYAN RAFI

MECHANICAL ENGINEER



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EDUCATION

B.TECH In Mechanical Engineering
Jawaharlal Nehru Technological
University, Hyderabad
GPA:7.5

Board of Intermediate Education (MPC)
Vagdevi Junior College
Percentage: 80%

Secondary school certificate (SSC)
Chaitanya High School
GPA:8.8

LANGUAGES

English ●●●●●

Hindi ●●●●●

Arabic ●●●●●

OBJECTIVE

As a mechanical engineer, I am looking for a challenging role where I can use my strong technical skills, critical thinking approach, and passion of problem-solving to support a range of creative solutions. Dedicated to use my mep engineering skills to promote quality, productivity, and continuous improvement throughout the company. willing to collaborate with multidisciplinary teams to effectively finish projects and help in the growth and prosperity of the company.

PROFESSIONAL EXPERIENCE

Aljumaiah **MECHANICAL ENGINEER**

02/2024 – present | Riyadh, Saudi arabia

- Oversee HVAC installations according to project drawings and specifications and coordinate daily site activities related to HVAC systems (ducting, piping, insulation, and equipment installation).
- Ensure compliance of on-site installations with design documents and recommend technical modifications if required during execution.
- Maintain daily work logs, material consumption records, and manpower details. Review and submit HVAC-related materials and method statements for approval.
- Ensure site work complies with site safety standards and procedures.
- I have overseen the installation of the zone control valve assembly for the fire sprinkler system.
- My team and I supervised the installation and operation of the fire pumps, including the electric, diesel, and jockey pumps.
- Verify that all mechanical equipment and materials, including AHUs, FCUs, ductwork, valves, pipes, and pumps, are approved by the Quality Control (QC) team before commencing installation on-site.
- Coordinate with the Quality Engineer to inspect and approve the installation of AHUs, FCUs, ductwork, chilled water piping, and pumps by approved shop drawings, project specifications, and relevant standards.
- Coordinate with the Quality Control (QC) team to review and rectify snag points or non-conformities identified during inspections.
- Ensure all corrective actions are implemented as per project specifications and standards, and prepare the installation for re-inspection and final approval.
- Coordinated the commissioning process for HVAC and fire protection systems, ensuring all components met operational parameters and regulatory requirements before project handover.
- Supervised installation and testing of pressurized pipe networks and associated fittings for HVAC and fire protection, verifying system integrity through pressure testing and ensuring alignment with project specifications.

CERTIFICATES

- **CERTIFIED MEP ENGINEER**, I finished my MEP training at Acton Engineers, where I learned design and drafting for HVAC systems.
- **AUTOCAD CERTIFIED DIPLOMA**, CanterCadd Institute provided me with an AutoCAD diploma programme.

PROJECTS

AUTOMATIC GARLIC PEELING MACHINE.

- Designed and implemented an innovative automatic garlic peeling machine as a part of a project, streamlining the peeling process and improving efficiency.

FABRICATION OF SCARA ROBOT FOR PRODUCT SEGREGATION.

- Led the fabrication and development of a SCARA robot for efficient product segregation in a major project.

SKILLS

- **HVAC Systems Knowledge:** Understanding of heating, ventilation, and air conditioning (HVAC) systems and their control strategies
- **Site Execution & Supervision:** Practical knowledge of installing MEP systems as per drawings/specs.
- Autocad
- Heat Load Calculation
- McQuay Duct Sizer
- Chiller troubleshooting
- AHU'S & FCU'S Troubleshooting
- Adaptability
- Team Work
- Problem Solving
- MS Office
- Soft Skills

- Coordinate with civil, electrical, and plumbing teams to avoid conflicts in services

ABS FUJITSU GENERAL PVT LTD MEP ENGINEER

01/2023 – 12/2023 | HYDERABAD, INDIA

- Supervised the installation of HVAC equipment, such as pumps, dampers, cooling towers, chillers, air handling units, and valves.
- Through supply chain management, keep a check on the distribution of equipments, and raw materials from procurement department to the project site.
- Headed the 15-person team that installed the chilled water piping, ductwork, AHUs, and FCUs.
- Followed quality control methods to ensure the reliability and safety of products.
- Delegated project responsibilities to assembled teams, ensuring task alignment with individual expertise to maximize on-site efficiency and project progression.
- Prepare the safety work permits and obtain approval from the site safety officer and client for working on the site.
- Active in communication with clients and their representatives, participating in meetings to provide updates on the status of work.
- Creating suitable teams for various tasks based on their skill set.

ENRUN INDIA

Design of HVAC System (Intern)

06/2022 – 12/2022 | Hyderabad, India

- Learned about the different types of HVAC systems like DX, VRV/VRF, and chillers.
- Learned how to calculate duct size using the McQuay duct sizer.
- Used the E-20 Method and HAP software for calculating heat load.
- Assisted in preparing BOMs and technical documentation for HVAC projects, ensuring alignment with project specifications and facilitating smooth procurement and installation processes.
- Assisted with drafting duct and pipe layouts for complex HVAC projects, leveraging industry-standard software to support accurate system design and ensure project requirements were met—estimated costs for projects.
- Hands-on experience with Duct Size Calculation, Duct Rooting, and Pipe Rooting.
- Adapted to new situations and learned new skills quickly.
- Collaborated with engineering teams to support the selection of HVAC equipment, evaluate system options, and validate specifications to meet the client.



ADDITIONAL INFORMATION

- Iqama Status : Transferable
- Nationality : Indian
- Martial Status : Single

PUBLICATIONS

Robotic Arm Development for Product Segregation Application

Inpressco International Press Conference

A robotic arm with a SCARA (Selective Compliance Articulated Robot Arm) configuration that has two degrees of freedom was developed. Each link of the robotic arm was designed using FUSION 360, and were fabricated using suitable materials. We used 4.8-6.0V servo motors as actuators and an IR sensor and a metal detector sensor were used for the robot's functioning. Arduino UNO was used as the controlling device for functional accuracy.



DECLARATION

I hereby confirm that the information provided above is true to the best of my knowledge and belief.

Mohammed Sufiyan Rafi