

## Curriculum Vitae

### **Mohammed Fahad**

Saudi Arabia.

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### Mechanical Design Engineer

#### Career Objective:

To secure a challenging position in a reputable organization to expand my learning's, knowledge, and skills in the Quality Control and Construction of MEP and EPC Construction while making a significant contribution to the success of the company with in depth Knowledge of ASHRAE, SMACNA, NFPA, IPC & SBC Standards.

#### Education qualification

- : **GRADUATE MECHANICAL ENGINEER**  
(First class with distinction)  
Jawaharlal- Nehru technical university  
Hyderabad, India.
- : Diploma in **HVAC** designing and drafting  
Craft educational academy Hyderabad T.S.
- : Diploma in MEP Designing  
Craft educational academy  
Hyderabad, Telangana.

#### Technical Skills:

- Saudi council of engineers certified.(no 761370)
- Review of design and tender drawings, IFC drawing for the implementation of work.
- Preparation of shop drawing, coordination drawing and AS-Built drawing as per site requirements.
- Successfully achieved diploma in **H.V.A.C** (heating ventilation & air conditioning).designing and drafting, heat load calculation, duct design, testing and commissioning of HVAC system, with depth knowledge of ASHRAE, SMACNA standards and HAP, elite, mc Quay duct sizing software.
- Firefighting system supervision, include sprinkler system, stand pipe system, deluge system, FM200, portable and mobile fire extinguishers, with knowledge of NFPA standard's.
- Chilled water system supervision includes installation of chilled water pipes for HVAC system, heat exchangers, boilers installation, chemical treatment for chilled water, chillers and boilers installation.
- Designing knowledge of plumbing services, pump calculation, chlorination of portable water, with knowledge of IPC codes,
- Calculation of External Static Pressure For the selection of fans for AHU and Exhaust Fan,
- Calculation of Pump Head and GPM for the selection of primary and secondary pumps
- Brief knowledge of BMS services for HVAC, chilled water and plumbing services.
- In depth knowledge of site inspections, ITP, MST and MOS preparation, issue and closing of NCR, site observations with complete standards.
- Successfully achieved diploma as mechanical QA QC Engineer
- Completed successfully diploma in MEP designing

## **Work Experience:**

**Total Experience 7 Years (5+ years in gulf and 2 years in India)**

CURRENT COMPANY	:	<b>Khatib and Alami Engineering Consultants (February 2019- Till date)</b>
1. Project	:	<b>MOH Emergency Operation Centers. Hail KSA</b>
Designation	:	Mechanical Engineer
Date	:	April 2021- Till Date
2. Project	:	<b>STC Administrative Buildings Riyadh KSA</b>
Designation	:	Mechanical Engineer
Date	:	February 2019- April 2021
PREVIOUS COMPANY	:	<b>Drake and Scull International (JV) Arabian Constructions (March 2017-Feb 2019)</b>
3. Project	:	<b>JABAL Omer Development Project, Makkah K.S.A</b>
Designation	:	Mechanical Engineer
Date	:	January 2018- February 2019
4. Project	:	<b>King Abdullah Petroleum Studies &amp; Research Center</b>
Designation	:	Mechanical Engineer QC
Date	:	March 2017- January 2018
5. Project	:	<b>SAI INDU PRIDE TOWN SHIP</b>
Designation	:	MECHANICAL ENGINEER
Company	:	ASITA ENGINEERING CONSULTANTS.
Date	:	May 2016-March 2017

### **A brief list of roles & responsibilities handled in the above projects:**

- Perform a wide variety of Mechanical assignments by applying Mechanical design standards, practices, and techniques.
- Prepare and review CAD drawings, renderings, layouts, study models, construction documents, and color boards. Ensures compliance with applicable codes, standards and client requirements.
- Ability to prepare clear and detailed calculations using proprietary HVAC design software such as Carrier E-20 HAP, Elite, etc. and be familiar with other computer programs for duct and pipe sizing, ESP drop and heat gain calculations.
- Fully conversant with International standards and codes of practice for mechanical engineering, including IBC, UPC, IPC, NFPA ASHRAE, IPC, SBC, ICC, SMACNA and other regulatory standards. Familiarity with quality assurance/quality control procedures applicable to design activities
- Responsible for the review of technical material submittal, shop drawings, coordination drawings (plans & shafts) and builder works as per the industrial standard, project specifications prior to submission the contractor.
- Coordinating with the Technical dept. in the case of any issues related to shop drawings or other technical issues.
- Prepare and review of Method of Statements and ITP's with reference to the Specifications of Project.
- Review of design drawing with construction drawing for the technical issues as per site condition, prepare site AS-built drawings
- Prepare and review of external static pressure calculations, for air handling units, fans and finalizing the equipment selection.

- Review and approve Firefighting drawing as per NFPA, Saudi Building Code standards and the civil defense requirements, review FM200 calculations as per client and project management requirements
- Supervise and witness Contractors' quality control inspections to ensure that the permanent works are constructed according to the contract, applicable codes, standards, approved drawings and specifications (i.e. fabrication, installation, pressure testing, equipment startup and commissioning).
- Review Contractor's submitted shop and as-built drawings, materials submittals, tie-in procedures, project schedules, daily and weekly reports and work permits, and assists Resident Engineer in obtaining their approval and/or comments.
- Assist QC engineer to review Contractors' mechanical quality assurance and quality control programs, inspection and test plans, installation, testing, and as-built procedures, for all mechanical systems.
- Responsible for the quality and workman ship of every activity through knowledge of all phases of engineering constructions
- Responsible for providing engineering solutions for the critical areas without any major impacts on any other services by maintaining the engineering standards.
- In the case of any Non-conformities found at the site, issuing NCR with respected categories (observation, minor or major) referring to the specs/ policy which is non-conformed in their implementations.
- Responsible for conducting Testing and Commissioning of Fire Fighting, Plumbing and HVAC services
- Attend Progress meeting with Direct Supervisor and another member of the Project Management team to resolve the issues.
- Skilled in designing mechanical equipment by using Auto CAD. Possess excellent troubleshooting and analytical skills
- Preparation of firefighting hydraulic calculations as per NFPA Standards and preparation of pump head calculations to finalize the pumps selection.
- Review the sound attenuator calculation forwarded by specialist noise consultant prior to submission for approval.
- Responsible for generating and review of HVAC design heat load calculations against IFC calculations through HAP program.
- Attending the meetings with client, main contractor and other subcontractors for all related engineering and coordination works.
- Preparation of closeout documents such as AS-Built drawings, sequence of operation, system description etc. of the project for mechanical services.
- Comprehensive knowledge of developing test procedures, schematic diagrams, and design specifications.
- Raising the technical quires to the consultant by proposing the solutions in order to implement at site.
- Coordinating with commissioning third party agencies for all pre-commissioning and commissioning work.
- Interacting with QA/QC Engineer, HSE Engineer and Consultants for technical, commercial and other clarifications.
- Conduct inspection of all Materials, equipment, site construction activities, testing, adjusting and balancing of all system as per applicable Standards.
- Ensure that all Mechanical site activities are conducted under controlled conditions as per shop drawings, method statements, specification and work plan.
- Inspecting material quality and quantity of received material as per project specification approved submittal prior to Consultant Inspection to avoid rejection of MIR.
- Closely monitor site activities to ensure quality of work is in compliance with approved shop drawing and Specification and get daily progress report from site supervisor (or) foreman and update to project Engineer (or) Manager

### **Language Skills:**

- English - Fluent (reading and writing skills)
- Urdu -Fluent.
- Arabic – Intermediate
- Hindi – fluent

### **Software's known and computer skills**

- AUTOCAD
- RIVET
- CATIAV5
- HAP
- ELITE (fire calculations)
- Mc Quay
- Fm200 calculation
- Duct weight calculations through excel
- MS Office, computer hardware & software.
- Microsoft XP applications (Word, Excel, Office, Power-point, Outlook, Access) – Advanced
- Microsoft Office Document Imaging and Scanning - Advanced
- Acrobat Reader 6.0 – Intermediate

### **Personal Competencies**

- Ability to work in a fast-paced environment to set deadlines
- Excellent oral and written correspondence with an exceptional attention to detail
- Highly organized with a creative flair for project work
- Enthusiastic, self-starter who contributes well to the team.

### **Personal profile**

Name : Mohammed Fahad  
Fathers Name : Mohammed Faiyazuddin.  
Date of Birth : 10th-aug-1994  
Religion : Muslim  
Marital Status : Unmarried  
Nationality : Indian  
Iqama : Transferable  
Iqama no : 2452433044  
Passport No : N7593763  
Place of issue : Hyderabad

**References shall be provided upon request**

**(MOHAMMED FAHAD)**