


## MUJTABA HUSSAIN

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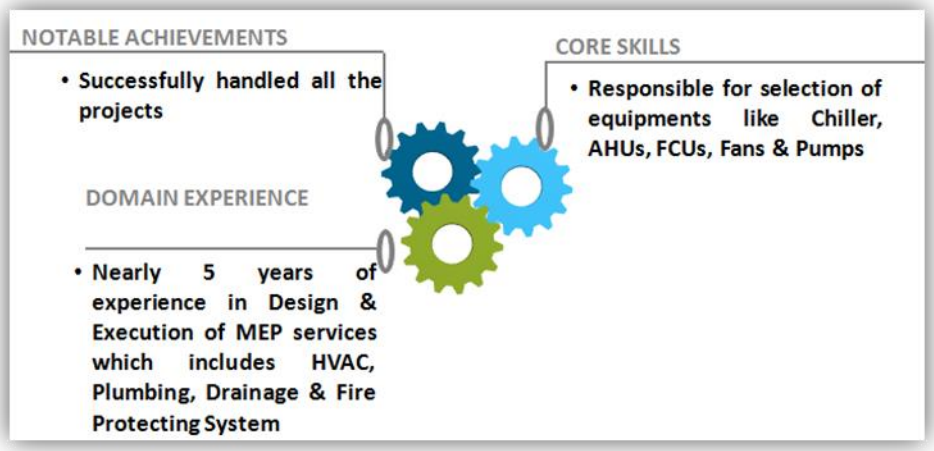
**A Mechanical Engineer,** aiming for middle managerial assignments in Application Engineering with a leading organization of high repute preferably in air conditioning industry

**PROFILE SNAPSHOT**

**A reliable & responsible professional with 6 years of Air Conditioning Industry experience in:**

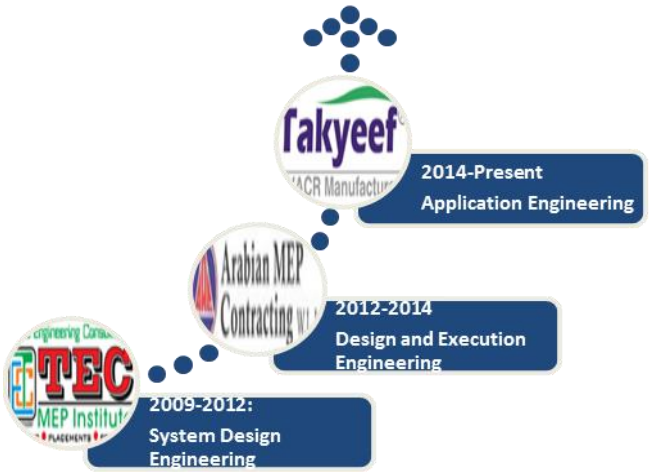
[1] **Equipment Selection**
[2] **Quotations**
[3] **Client Articulation**
[4] **Project Review**
[5] **Air Conditioning & Ventilation Design**
[6] **Heat Load Calculations**
[7] **Material Submittal**
[8] **ESP Calculations**
[9] **Ducts & Pipe Designing**
[10] **Project Execution**
[11] **Shop Drawings**

- **BE (Mechanical Engineering)** in Distinction from **Osmania University**, India
- Hands-on experience in multiple fields of Air Conditioning Industry including System **Design**, Equipment **Installations** and Equipment **Manufacturing**.
- Fundamental skills to provide accurate solutions related to AC equipments.
- Detailed knowledge of AC equipment selections to match the project requirements.
- Well versed in creating profits by apt **Quotations** for specific projects.
- Deft in Air Conditioning & Ventilation System design for buildings. Good knowledge of **REVIT, AutoCAD** & **Elite** softwares.
- Well versed with the **ASHRAE, SMACNA and NFPA Standards**
- Gained significant exposure in planning & controlling **design & development operations**; abilities in conceptualizing and effecting process initiatives to enhance efficiency and productivity
- Responsible for selection of equipments like AHUs, FCUs, Chillers, Fans, Pumps, etc. as per project requirements
- Involved in preparation of Material Submittals for materials in HVAC, Plumbing & Drainage and Fire Fighting and creation of Design Drawings, Shop Drawings & Co-ordination Drawings
- Deft in **ESP calculations** (External Static Pressure) for AHUs, FCUs & Fans selection and **Hydraulic calculations** (Pump Head) for Chilled Water, Booster, Sump and irrigation pumps selection
- Ensuring liaison & coordination with suppliers for materials and conducting internal meetings to coordinate installation work with field teams
- An impressive communicator with excellent planning & manpower management skills



## AREAS OF EXPERTISE

- **Responsible for selection of equipments** like Chiller, Air Handling Units, Fan Coil Units, Fans, Pumps, Heat exchangers, etc. as per the project technical requirement
- **Supervising project activities** (drawing/documentation) and handling the complete project management cycle entailing requirement gathering and final execution of projects
- **Developing engineering designs/ drawings** and technical specifications for ensuring smooth execution of large projects within the time and cost parameters
- **Spearheading operations related to HVAC**, Plumbing, Drainage and Fire-fighting site works, execution, technical and contractual issues related to the successful completion of the project and maintaining the highest level of quality standards



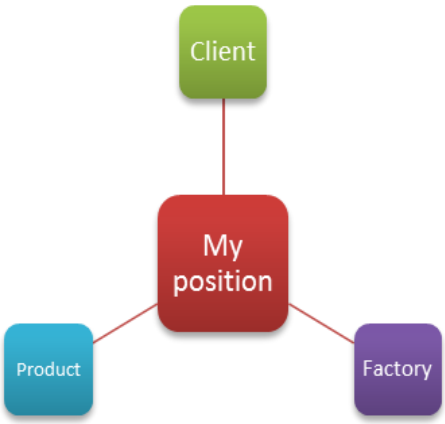

## EMPLOYMENT DETAILS

**Since 23rd Sep'14 — Takyeef Factory LLC, Abu Dhabi, UAE as an Applications Engineer**

Takyeef Factory is a specialised Original Equipment Manufacturer (OEM) for all types and sizes of Air Conditioning equipments.

**Key Result Areas:**

- Maintain in depth level of product knowledge and Air Conditioning Applications.
- Identify and provide accurate solutions for all technical issues for air conditioning equipments to consulting engineers, contractors and technical buyers.
- Apply fundamental skills to provide technical support to the client in product design and project specifications development for HVAC (Heating Ventilation and Air Conditioning) systems.
- Review the enquiries in the form of specifications, technical schedules and drawings related to the scope of Air Conditioning and provide an adequate solution.
- Responsible for the selection of Air conditioning equipments including Air Handling Units, Fan Coil Units, DX Split Units, Condensing Units matching the capacity, size and configuration to meet the project/client's requirements.
- Prepare technical submittals of the selected equipments for official submission from the client.
- Prepare quotations for the selected equipments, keeping in view the profit and market competition.
- Prepare and maintain project files and database.
- Peruse and participate in the technical tenders of mega projects related to air conditioning equipments.
- Validate the project scope and provide input to the engineering/production teams as per the customer approval for the selected equipments.
- Listen, understand and convey the customer's requirement to the production department of the factory.

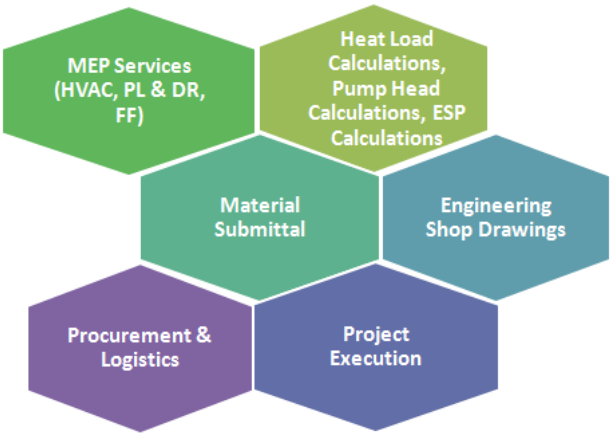



- Establish and maintain strong technical and professional relationship with the client.

**EMPLOYMENT DETAILS**

**Mar'12-Aprl'14 Arabian MEP Contracting WLL, Doha, Qataras Mechanical Engineer**

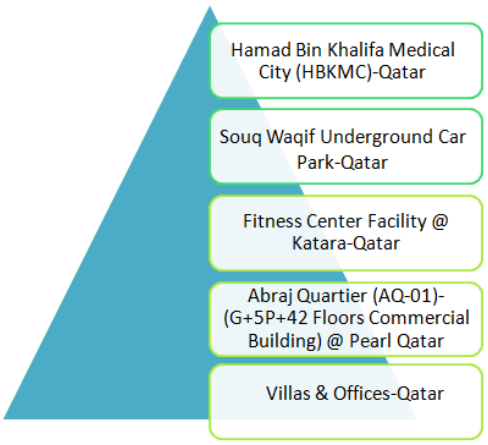
**Key Result Areas:**




- Collaborating with Planning & Engineering Team for the Engineering aspects
- Analyzing drawings, calculations and project specifications and maintain coordination of Design for all MEP services
- Conducting HVAC Heat Load Calculations in accordance to ASHRAE Codes with E-20 or using the software (HAP 4.61)
- Developing Duct Design according to SMACNA, DW Standards, Pipe Design for Chilled Water, plumbing services, etc.
- Liaising with suppliers for preparation of material submittal for HVAC, Plumbing, Drainage and Fire-fighting to select and approve the engineering materials which comply with project specifications and requirements.
- Looking after the preparation of:
  - Shop drawings, coordination engineering drawings, builder's work and as built drawings in coordination with electrical, civil and architecture department for accurate site execution
  - Method Statements for HVAC, Plumbing, Drainage & Fire fighting installations
  - Documentation for variation claim as per the contract
- Organizing internal meetings to coordinate installation work with field teams from mechanical, electrical and civil disciplines to ensure proper operation and successful systems integration
- Responsible for project explanation to the team (Supervisors, Foreman & Workers)
- Carrying out inspection of installation as per the approved engineering shop drawings and maintaining the highest level of quality standards

**Highlights:**

- Handled design of ventilation system for Car Park Project complying to ASHRAE & QCDD requirements, wherein proposed fresh & exhaust air fans of 2 speed ductless fire rated to 300°C for 120 minutes
- Involved in selection & calculation of External Static Pressure of nearly 300 AHUs & FCUs for HBKMC Project
- Successfully executed the following Projects:
  - Hamad Bin Khalifa Medical City (HBKMC)-Qatar
  - Souq Waqif Underground Car Park-Qatar
  - Fitness Center Facility @ Katara-Qatar
  - Abraj Quartier (AQ-01)-(G+5P+42 Floors Commercial Building) @ Pearl Qatar
  - Villas & Offices-Qatar




**Jul'09-Feb'12 Taiba Engineering Consultants-India as HVAC Design Engineer**

**Key Result Areas:**

- Started from concept and prepared concept design for initial approval from client for HVAC design and engineering
- Pioneered the heating and cooling load calculation in accordance to the building survey following ASHRAE & ISHRAE Codes either with E-20 form or by using software HAP3.5
- Prepared Duct Design by SMACNA standards, selection of air terminals using BETA Performance data Program
- Evaluated Duct Size manually using Friction Chart or by Software McQuay/DUCTU
- Handled the Ventilation System Design-Kitchen Hood & Duct Sizing, Toilet Exhaust System (Commercial, Residential) and Exhaust Fan Selection by using performance curves
- Carried out the selection of Units: AHUs, FCUs, Chillers, Fans, Pumps, etc.
- Looked after the Pumps Head Calculations, Chilled Water Pipe Sizing, and ESP Calculations
- Created HVAC Shop & Design Drawings

**Highlights:**

- Effectively handled the following Projects:
  - Hyderabad Central, India
  - Kalanjali Emporium, India
  - Krishna Institute of Medical Sciences, Hyderabad
  - DRDO, Hyderabad, India

## ACADEMIC DETAILS

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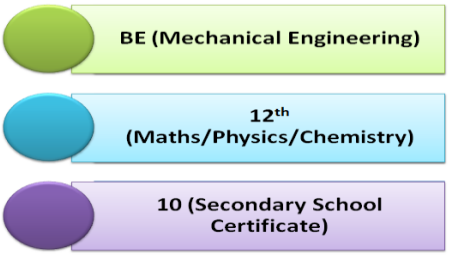
|---|---|
| 2011 | Maintenance Engineering & Management Course from Annamalai University (Distance Learning Programme) |
| 2009 | BE (Mechanical Engineering) from **Osmania University**, India with **76.35%** in distinction |
| 2005 | 12th (Maths/Physics/Chemistry) from **BIE** with **90%** |
| 2003 | 10th from St. Marks' Boys Town High School with **76%** |




## OTHER ACCOLADES

- Holds the merit of:
  - Organizing a Technical Event "Junkjyard Wars" in ADSOPHOS-2009 held at the MJCET
  - Receiving a number of Merit Scholarships for Academic Excellence
  - Regularly attending Technical Seminars, Events and Presentations

## TRAININGS/WORKSHOPS

- Introduction to eDesign" training by Carrier, Qatar
- Techniques of Fire Rated Duct Design & Fabrication" training by FireMac-UK/CATDUCT, Qatar
- Diploma in "Maintenance Engineering and Management" from Annamalai University in 2011
- Advanced Training in "Preventive Maintenance of Machine Tools" from ATI (Govt. of India)
- Workshop on "Lubrication Management, Condition Monitoring and Ferrography" held at MJCET, India

## MEMBERSHIP

- Active member of ASHRAE-USA (Qatar Chapter), membership number 8284622

## CERTIFICATION

- UPD Certified by Ministry of Urban Planning & Development, Govt. of Qatar

## IT SKILLS

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|---|---|
| Cad Tools: | **REVIT 2014**, AutoCAD, Solidworks, Ansys, Corel Draw, MS-Visio. |
| HVAC Software: | HAP (4.61), Trane, Duct Sizer 5.0 (McQuay), Ductu, Beta Performance Data Program, AirConcept. |
| Operating System: | Windows |
| Office Automation: | MS Office |
| Languages: | C & C++ |

## VOLUNTARY ASSIGNMENT

- Served as a Member of:
  - HMC Blood Donation Campaign as well as frequent Blood Donor
  - "Desert Plantation Initiative" in Qatar
- Acted as Volunteer at:
  - "Qatar Red Crescent Society" for rehabilitation of expat workers in Qatar
  - "Injaz-Qatar", an organization for growth of knowledge, innovation and entrepreneurship skills
  - "Ferozkoh"event in March 2013 at Museum of Islamic Art in Qatar
- Proactively represented and volunteered on behalf of the company (Arabian MEP) in the International Exhibition "Project Qatar – 2013" held in Qatar

## PERSONAL DETAILS

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|---|---|
| Date of Birth: | 9th July 1987 |
| Languages Know: | English, Hindi, Urdu, Arabic and Telugu |