Salman

Salman.246838@2freemail.com

**Mechanical Engineer**

**Nationality: Pakistani**

**D.O.B: 15-January-1990**

**Marital status: Single**

**Career Objective**

Skilled in designing, planning, maintenance, research, development and installation of building mechanical equipment and systems for commercial buildings, willing to work as a HVAC Mechanical Engineer for an engineering organization to monitor the entire operation of installation, maintenance & repair of HVAC system for commercial & residential projects.

**Highlights**

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| * Project planning & design
* Carrier HAP 4.51
* Autodesk Revit MEP
* Primavera P6 & MS project
* Auto CAD
* Pro Engineer
 | * Cooling/heating load calculation
* MS Word, Excel & power point
* HVAC installation techniques
* Building / design techniques
* Preventative maintenance
* System diagnostics
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**Work Experience**

**MIA Corporation (Private) Limited Islamabad (Pakistan) (Jun, 2014 to Present)**

**HVAC Mechanical Engineer**

Responsibilities:

* Working closely with project architect and design engineers
* Determining a suitable location for installing vents in each room
* Inspecting the HVAC systems for commercial and residential buildings
* Calculating the size of HVAC equipment and return ductwork systems
* Ensuring proper ventilation of the building and protecting health of occupants
* Testing equipment and reviewed maintenance records
* Designing Colling systems for separate rooms based on use
* Installation and commissioning of the MAHU’s, AHU’s and DFCU’s, FCU’s.
* Installation of the pipe lines and ducts of HVAC system.
* Installation and commissioning of Colling tower & chillers
* Attending clients' demand for specialized HVAC systems
* Preparing BOQ for HVAC projects
* Technical Scrutiny of Contracts, Supervising the installation works at site, processing of contractor’s bills
* Liaising with colleagues, client departments & customers

**ACS Engineering Concern (HVAC System design consultants)**

**Trainee HVAC Engineer May, 2013 to June, 2014**

Responsibilities:

* Preparation of Reports, Tender Documents, Engineering Calculations with the source of knowledge, specifications, budgeting and literature for HVAC Projects
* Calculation of cooling/heating loads of commercial buildings by the use of computer software’s like Carrier HAP (Hourly Analysis Program ) ,duct seizers etc.
* Data fixation including HVAC design duty parameters
* Scrutiny and comparing of Shop Drawings with the design and Tender drawings

**Ayub Teaching hospital Abbottabad Pakistan (HVAC SYSTEM)**

**HVAC Supervisor (part time) August, 2010 to April, 2013**

Responsibilities:

* Maintained and repaired the mechanical equipment’s, heating & air conditioning systems.
* Executed & performed general & advanced maintenance duties such as plumbing, electrical and preventive maintenance.
* Maintained & repaired mechanical equipment’s including water pump, Box fan.
* Maintained & repaired Air handling unit, fan coil unit.
* Diagnosed Breakdown problems
* Inspected Heat Exchangers, Boiler, Chillers, & Air Handling units regularly.
* Dealt with unplanned problems & repairs
* Liaised with colleagues, client departments & workers

**Education**

* University of Engineering & Technology Peshawar Pakistan
* **Bachelor of Technology Mechanical Engineering** Sep,2010**-**Sep,2014
* Marks : 73.56%
* **Achievements & Rewards:**

Got a *distinction certificate* on four consecutive positions at university of engineering & technology Peshawar

Got a laptop on a good performance from Higher Education Commission Pakistan

* ***Modules Studied****: Refrigeration & Air conditioning, Mechanical Engineering Design, Thermodynamics, Heat & mass transfer, Power plant, Mechanical vibration, Engineering Economics, Installation testing & maintenance of Machines, Fluid Mechanics & Hydraulics Machinery, Theory of Machines, Applied Mechanics, Strength of Materials, Basics Electronics, Mechatronics, etc.*
* ***Skills developed****:*

Through independent project work I have developed my analytical thinking, numeracy and ability to manage projects effectively.

Regular group working in teams of 3-6 has improved my ability to build effective working relationships within a team

* Government College of Technology Swat Pakistan
* **Diploma of Associate Engineer Mechanical Technology** Aug,2007-Jun ,2010
* Marks : 76.6 %
* **Achievements & Rewards:**

Got a *distinction certificate* on first position from Government college of Technology Swat Pakistan

***Modules Studied***: *Machine Design, Hydraulics & Hydraulics Machinery, Applied Thermodynamics, Workshop Technology, Metallurgy, Electronics, Engineering Drawing & Cad.*

**Professional Skills**

**Carrier HAP (Hourly Analysis program)**

* Ability to calculate space load ,zone load, system load ,system size etc

**Primavera p6 R8.3**

* Ability to plan, execute & schedule projects
* Ability to generate project, work breakdown structure, projects activates, project codes, resources, resources codes, Assign resources to activities.
* Ability to Maintain & Assign base lines.
* Ability to make progress reporting, read Gantt charts, generate project report etc.

**Microsoft Project pro 2013**

* Ability to generate project, Tasks, resources, progress reporting etc.

**Revit MEP 2014, 2015**

* Ability to read & design Revit MEP drawings

**Auto cad Mechanical (2d & 3d) 2004, 2013, 2015**.

* Ability to design Mechanical object in 2D & 3D, read Auto cad drawings, install auto cad in MS windows

**Pro Engineer wildfire 4.0, 5.0, Creo parametric 2.0**

* Ability to use pro engineer/Creo for designing Mechanical parts
* Created & designed springs, couplings, threads, gears, fly wheel, Machine bodies etc.
* **Microsoft Office**
* MS Word: Ability to write letters, Applications, daily reports, etc.
* Power Point: Ability to create slides for presentations and other related works
* Excel: Ability to form data sheets etc.

**Certifications**

* Primavera P6 ,MS Project, Auto CAD ,Revit MEP

**Academic Projects**

Bachelor of Technology Mechanical Engineering “**Major Project**” Oct, 2014

**“Design & Fabrication of Solar Refrigerator”**

**Worked as a team Leader**

* Designed parabolic trough collector, condenser and evaporator.
* Prepared a resource budget to estimate system energy requirements
* Project was designed in Auto Cad, Pro engineer.
* Electric Arc and Gas welding was used during fabrication.
* Sun was used as a Heat source.

Bachelor of Technology Mechanical Engineering “**Mini Project**” Sep, 2012

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| **“Generation of Energy From speed Breaker on Roads”** |
| **Worked as a team Leader*** The project was designed to convert the potential energy of vehicles on the road to electrical energy.
* Project was designed in Auto cad & pro engineer
* Speed breakers was used for the conversion of potential energy to kinetic energy and then electrical energy through gear trains and generator.
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| Diploma of Associate Engineer **“Major project”** May,2010**“Design & Fabrication of Power Hacksaw”** **Worked as a group Leader** |
| * Designed crank shaft, frame, pulley, shafts.
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| * Project was designed in auto cad & pro Engineer
* In the project Circular motion of the pulley is converted into reciprocating motion through crank.
* Lathe machine, Shaper machine and milling machines was used for different operation
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**Skills**

* Good communication & interpersonal skills
* Strong problem solving and negotiation skills
* Ability to work under pressure
* Group work spirit
* Ability to adapt to the change in company culture

**Hobbies**

* Playing badminton
* Reading news papers
* Making new friends
* Searching the web

**Languages**

* English, Urdu, Pashto