**Aakif**

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**Position:** Mechanical Design Engineer

**Experience:** 3.6 years

**Qualification:** B.sc Mechanical Engineer

**Location:** Dubai, U.A.E

**E-mail:** aakif-399764@2freemail.com

**Whatsapp #:** +971504753686

**Engineering | Designing | Technical | Drafting | CAD | CAM | CAE**



**CAREER SUMMARY**

* An analytically thinking, Technical Engineering Professional working as Mechanical Design Engineer at one of the largest Construction Company
* Create technical drawings, manufacturing schematics, and 2D and 3D digital models of mechanical equipment designs, using measurements, specifications, and additional data from engineering team
* Provide support to engineering team as needed by creating technical drawings and digital models within deadlines and utilizing multiple methods to ensure deliverables include all relevant design details
* Assist in ongoing project to standardize and unify design document standards by participating in meetings and preparing presentation materials as necessary
* Driven and motivated design engineer with exceptional and consultative CAD skills
* Designing and drafting of layouts and pipe networking as per requirements
* Fine-tuned to negotiating with suppliers and vendors, communicating in a transparent, unambiguous manner the scheduling needs of the business throughout the project
* Active listening to help customers solve technical problems



**DOMAIN SKILLS**

* Understanding and interpreting Technical Drawings
* Making layouts & drafts
* Creating & alternating sketches
* Engage complete assign task within time and cost restraints
* Recommended modification for design improvements and simplification
* Equipment Layout, MTO, Nozzle Orientation, Isometrics etc
* ISO co-ordination and implementation of QMS
* Mechanical structures
* Analysis (Structural, Fatigue, Thermal, CFD)
* Selection of material as per job or customer requirements





**PROFESSIONAL EXPERIENCES**

**JUN 2018 – Present: in a Manufacturing Company in UAE as a Design Engineer**

**A top manufacturer of building materials in UAE**

**Working as a Tool and Die Designer**

**Core Responsibilities**

* Preparation of mechanical designs and CAD models by using **Solid works**, **Pro-E (Creo)** and **Auto CAD**
* Preparation of 2D and 3D drawings
* Work on Sheet metal works **2D** and **3D**
* Model and design steel structures for different projects
* Perform analysis by using **ANSYS**
* Prepare fabrication drawings, assembly drawings and proposal drawings
* Modified and improved existing products

Create accurate CAD drawings from hand sketches, verbal instructions, and site visits

* Preparation of Bill of Material **(BOM)** of every type of assembly
* Draft and prepare layout drawings of the given structures, components, and devices

• Produce draft designs and diagrams according to the given specifications

• Reviewing design drawings and project specification

• Follow up for manufacturing parts

• Visit job sites to measure and photograph existing mechanical process equipment

• Seeking clarity and understanding from engineers and project managers when I am not 100% certain of something

• Seamlessly integrating and working with project managers design consultants, and sub-contractors, to produce and alter drawings.

• Think creatively and critically to support the project team in the design process, to create sketches and drawings that work.

• Assist and coordinate with senior engineers

• Create and continually update project drawings lists.

• Print various formats of drawing sets for project managers

• Create, edit, and update standard details for use in projects

• Coordination with steel fabrication sub-contractor and monitor their progress and quality

• Systematically save sketches and drawings on our CAD server keeping the server organized updating project folders and files as jobs progress and revisions are made.

• Standard work methods are followed for preparing drawings under moderate supervision

• Exhaustively review and check sketches and drawings for errors, before being sent to supervisor, project managers

• Responsible for maintaining an organized file system for production drawings

• Accommodate safety procedures and issues in installation and construction drawing

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**Sep 2014 – Nov 2015: CHITRAL ENGINEERING WORKS as a Design Engineer**

**Chitral Engineering works is a local leading company of designing and manufacturing company of Hydraulic Turbines**

**Core Responsibilities**

• Designed Pelton wheel Turbine Casing

• Designed Pelton wheel Turbine Buckets

• Produced 3D drawings and designs using AutoCAD, Solid works and Creo

• Performed structural Fatigue and Flow analysis by ANSYS

• Performed separate parts Analysis and as well as complete Turbine Analysis

• Involved in the development of new products from initial design to production

• Drawn each parts 2D drawing as per requirements

• Constructed coordinated and monitored all facets of production including fabrication operation of design selection and manufacturing method

• Performed analysis by using ANSYS

• Made fabrication drawings, assembly drawings and proposal drawings

• Modified and improved existing products

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* Collaborated in cross functional teams to meet product and customer specifications
* In process inspection and final dimensional inspection
* Analyzed cad drawings and provided proper corrections along with advising project managers for manufacturing
* Researched customer design proposals to evaluate suitability cost and long-term maintenance of applications
* Sheet metal works 2D and 3D
* Prepared contract documents from accepted bids for engineering extraction projects and construction
* Weldments of solid works

**TECHNICAL SKILLS**

* AutoCAD
* Pro-E / PTC Creo
* Solid Works
* Mastercam
* Ansys
* MS Office
* SAP
* API



**EDUCATION**

**2010-2014** **Bachelor of Science, Mechanical Engineering- HITEC University Taxila Cantt Pakistan**

**Final year Project:**

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Vertical Axis Savonius Wind Turbine

Complete Designed model on software and practically performed, generated a practically Electrical Power from turbine



**PERSONAL DETAILS**

**NATIONALITY:** Pakistani

**Languages:** English, Urdu

**Visa Status:** Employment Visa