

MUHAMMAD UMAIR AKHTER

CAD Draftsman / Designer | Umair.Akhter@outlook.com | umxir.com

Experienced Draftsman and Designer with **13+ years** of experience in **Oil & Gas, Fertilizer, and Civil Industries**. Skilled in **Mechanical, Process Piping, Civil, Steel Structural Drafting**, site supervision, and quality control. Advanced technical knowledge in CAD software, including AutoCAD, Inventor, Revit, Plant 3D, and ReCAP.

Skills

- Proficient in **Mechanical, Process Piping, Civil, and Steel Structural Drafting**, with a strong track record of producing accurate and detailed drawings.
- Demonstrated expertise in **site supervision, contractor billing, and quality control**, ensuring project success through effective oversight and management.
- Possess a unique blend of creativity, **detail-oriented, strong technical acumen**, and **mathematical skills**, contributing to innovative and precise solutions.
- Exceptional **interpersonal, communication, and time management skills**, fostering collaboration and facilitating seamless project workflows.
- Specialized in creating a variety of documents, including **layouts, Plans, ISOs, BOMs, BOQs**, and **2D & 3D** representations, ensuring a comprehensive approach to project documentation.
- Proficient in utilizing industry-leading software tools, including **AutoCAD, Inventor, Revit, Plant 3D, ReCAP**, and **MS Office**, to optimize the drafting and design process.

Work History - 14+ Years of Experience

Senior CAD Designer / Drafter

JUNE 18 - Current

Freelancer, Providing Drafting services to local and international clients.

- **Innovative Aquatic Designs, US - Construction & Process Piping Drafting - Feb2022/Ongoing**
 - Pool & SPA Construction Drawings Packages.
 - Pool/SPA & Equipment Room Layout & Plumbing
- **PumpServ Pty Ltd, AU - Equipment Drafting - Oct2020/Ongoing**
 - Water filtration Skids, 2D Fabrication Drawings
 - Water Filtration Skids 3D Views
- **Mechanica Engineering Consultants, SA - Process Piping Drafting - Aug2020/Aug2022**
 - Tank Farm Area Fire Fighting Network. Piping Plans, ISOs, BOQs/BOMs, Support Details
 - LNG Plant to Tanks Filling station Network. Piping Plans, ISO, BOQs/BOMs, Support Details
 - LNG Cross border Line & Pumping Stations. Piping Plans & Routes, ISO, BOQs/BOMs

Associate Engineer (Draftsman) – 8.5 Years

OCT 09 – MAY 18

On-site - Fauji Fertilizer Bin Qasim Ltd. (FFBL), Karachi

During my tenure in FFBL, I have done major projects. Project Details are listed below.

Project 1: FFBL Power Company Ltd (Coal Based Power Plant, Karachi)

- Reviewed / modified / produced 4x Steam Turbines foundations, Piping Racks structures plans & joint details, and Piping routes & supports details.
- 17x Ties-in with existing plant, Location, Routes, Piping Plans, Piping support Supports, ISOs, BOQs, Site Supervision.
- Identified potential operational issues and redesigned piping routes, equipment foundations to avoid clashes & improve functionality.

Project 2: Fauji Meat Ltd (Halal Meat Production Plant, Karachi)

- Conducted drafting office activities such as drawings reviews / amendments, maintaining drawing repository, drawing Issuance & printing.
- Reviewed drawings & specifications received from 3rd party designers to prevent site clashes and other discrepancies.
- Performed meticulous site measurements and data collection, facilitating effective communication with designers for precise and collaborative project planning.

Project 3: Infrastructure Projects (5x Multi Storey Building Project at FFBL plant Site, Karachi)

- Managed drafting office activities and coordinated with on-site execution teams, ensuring efficient communication and smooth project implementation.
- Utilized CAD software proficiently to create detailed blueprints and schematics.
- Performed on-site measurements, collected crucial data, and provided valuable feedback to ensure precise site execution and maintain high-quality control standards.

Routine Jobs on Daily Basis (Project Section, FFBL Plant Site, Karachi)

- Responsible for routine plant maintenance and revamps drawings including process piping, steel structure, equipment, pipe racks, Foundations, UG Tanks, Roads, etc.
- Conducted research, information gathering & calculation to develop and design detailed specifications for Mechanical / Piping components and machinery with CAD software.

- Determined & reviewed applicable specifications to generate details of piping, steel structure, equipment & other parts as per requirements.
- Assisted & consulted with project engineers, managers, consultants, and site execution agencies to produce and alter

Apprentice Draftsman – 2 Years

Oct 07 – Sep 09

- Completed two years of hands-on training under the guidance of senior colleagues at Fauji Fertilizer Bin Qasim Ltd. in Karachi.

Education

Bachelor of Technology (Hons): Mechanical

2013 | 04 Years, Indus University – Karachi

Diploma of Associate Engineer: Mechanical

2006 | 03 Years, Govt. College of Technology – Bahawalpur

AutoCAD 2D, 3D

2007 | 03 Months, Skills Development Council – Pakistan

Personal

Whatsapp: [+923003999272](tel:+923003999272) & [+923458711272](tel:+923458711272)

Email: Umair.akhter@outlook.com

Linkedin: [Umair Ch](#)

Website: umxir.com