

Muhammad Asim Khan

· Senior Piping Engineer · Senior Material Engineer · Senior Project Engineer

✉ asimui127@yahoo.com | ☎ 929 503 0214 | in [muhammad-asim-khan-5240421a](https://www.linkedin.com/in/muhammad-asim-khan-5240421a)

"Be the change that you want to see in the world."

Summary

An experienced Mechanical Engineer with more than 11 years of strong UAE and UK experience in Piping, Project, and Material engineering for on-shore/off-shore operations in the Petrochemical, Refinery, Marine, and oil & gas industries in terms of Detail Engineering and EPC.

Expertise on

- 1) Development of Marine & Drilling System Piping P&IDs, Line List, PMS, Special Item List, and GA.
- 2) Site survey, site pre inspection, site engineering.
- 3) Contract Instructions, Scope of work, Piping Specification.
- 4) Preparation of Piping Layout and basic Piping Material Specification with the help of guideline spec., data given by process / client.
- 5) Piping support, Support arrangement, Support critical lines.
- 6) Piping inputs to civil, vessel, electrical, Instrumentation.
- 7) Manage and control the material handling.
- 8) Good exposure in Project Engineering & Coordination systems.
- 9) Knowledge IMO MODU Code, ABS rules, GL rules, ASME, ASTM, ANSI & DIN standards.
- 10) Knowledge of Piping Codes and Standards (ASME B31.3).
- 11) Test Pack

Recently I moved to the USA permanently from the UK as I also have an American Permanent Resident Card (Green Card) and a US Driving license. Looking for a challenging and demanding position in Mechanical Piping, Material, and Project Engineering in a growth-oriented Consulting, Contracting, and Construction organization to render professional skills and add value to Organizational growth and objectives. I have completed my all Ph.D. Mechanical Engineering work, and writing my final Thesis from here. The title of my Ph.D. project is 'Micro Combined Heat and Power (micro-CHP) System for Domestic Applications'. My Ph.D. project is a state-of-the-art technology study that ultimately helps in CO₂ emission reduction in future smart cities. My previous education was in Mechanical Engineering (M.Sc. Advanced) and Mathematics (B.Sc., M.Sc., and MPhil).

Education

Staffordshire University

PhD Mechanical Engineering (Writing now my final Ph.D. Thesis from the USA)

Stoke On Trent, UK

Jan. 2020 - Mar. 2023

- Recipient of Scholarship.

Sheffield Hallam University

MSc Advanced Mechanical Engineering

Sheffield, UK

Sep. 2009 - Oct. 2010

COMSATS University

MPhil Mathematics

Abbottabad, Pakistan

Sep. 2007 - May. 2009

- I completed course work and half research of my M-Phil before moving to the UK.

International Islamic University Islamabad

MSc Mathematics

Islamabad, Pakistan

Aug. 2005 - Sep. 2007

Punjab University

BSc with Mathematics, Physics and Geography

Lahore, Pakistan

Jul. 2003 - Jul. 2005

Employment History

Staffordshire University

Lecturer OF ENGINEERING

Stoke On Trent, UK

Sep. 2020 - Mar. 2023

- Preparing and delivering lectures and tutorials to Bachelor & Master Engineering students. At times this is challenging, as I had to combine teaching with my studies. This gives me valuable teaching experience & improving communication, confidence, and organizational skills.
- Participating in training opportunities & initiatives at the University. Attending and participating in meetings, conferences, and other events.

Langleys Alloys

Internal Sales Administrator / Material Specialist

Newcastle-under-Lyme, UK

Feb. 2020 - Sep. 2021

- Market research and Customer calling.
- Monitoring the daily work activities.
- Following up on progress and material delivery for achieving planned dates.
- Communication & coordination with different departments, clients, and vendors.
- Review Progress Reports, requirements, and the Client's documentation.
- Compiles and maintains manual or computerized records, such as material inventory, in-process production reports, and status and location of materials.

Dynamic Industries Inc.

Material Coordinator / Site Material Controller / Piping Material Head

Aramco Pipelines Project - UAE Based

Oct. 2018 - Sep. 2019

- Team lead for Piping Material Activities and responsible for Piping Material deliverables.
- Preparation of Material reconciliation, Surplus material documentation, piping deliverable list, and Monitoring of detailed engineering activities.
- Reviewing project specifications, scope of work, and project Schedule.
- Coordinate with Client and different Departments (e.g. Procurement, Process, Mechanical, Production, NDT, QC, Painting, and Project).
- Work closely with superintendents, foremen etc. & to support their day-to-day operational requirements.
- Material issue and control, schedule management, progress reporting, distribution, and managing subcontractor scope & activities, budget control, etc.

Al Ghaith Oil Field supplies & Services (OGASCO)

Abu Dhabi, UAE

Sr. Material Engineer / Material Head (Piping and Mechanical)

Oct. 2017 - Sep. 2018

- Assists Production, NDT, QC, and Painting departments.
- Preparation of line list, valve list, material list, MTO (Material Take Off), BOM (Bill of Material), RSP (Request for surface protection), Job Cards, Material Issue Voucher, stop notice work documentation, DN (Delivery Note), Material reconciliation list, Surplus material documentations, Invoice, Quantity and Payment certificates, RIC (Request for Invoice creation) and Technical Query, etc.
- Reviewing Client's technical documentation, requirements, project piping material specification, piping components data sheets, and P&ID provided by the Engineering department OR Clients.
- Good experience and knowledge in site survey and fabrication aspects. Also check that all the materials, such as pipes, fittings, flanges, and valves, are within the international codes and standards.
- Calculate the WID (Weld inch Dia), Painting Surface area, and weight of each spool.
- Using Citrix software and preparing Purchase Orders and Purchase Requisitions.
- Conversant with various applicable international standards like ASME/ANSI, ASTM, API, BS etc.
- Provide support to all expense projects and maintain accuracy in all piping projects and ensure compliance with all piping material specifications and maintain knowledge of all orders.

IMCC Abu Dhabi Group (Gulf Specialized Mechanical Engineering)

Abu Dhabi, UAE

Piping Engineer / Test Pack Engineer / Project Engineer

Jun. 2013 – Oct. 2017

- Preparation of Piping Fabrication Drawings, Isometrics Drawings, AS BUILT" drawings, line list, valve list, material list, pipe support list, olets list, MTO (Material Take Off), BOM (Bill of Material), Technical queries (TQ) related to Mechanical/piping scope, and Site visit reports.
- Review of project details, drawings, documents, P&ID, and model in Smart plant review to clarify site queries.
- During Site Inspection I have to check line routing, Tags number, out-of-tolerance, bend, offset, level, Dimensions, and Instruments as per GA drawings, P&IDs, and isometrics OR not. Also, coordinate with the site construction team for smooth execution of the project.
- Using Auto CAD, PDMS (Plant Design Management System), Navisworks, Sigma Nest, Spoolgen, Smart plant review, and PV Elite.
- Design Calculations of Pumps, Pipe sizing & Pipe wall Thickness.
- Communication & coordination with clients, vendors, and contractors at the site for their detail engineering, and technical Queries.
- Familiar of piping codes and standards (ASME B31.3).
- Test packs maker, and Checker for commissioning works. Also, preparation of the documents of the test packages such as Test Pack cover sheet, Test Pack Contents, Pre-Test Check Sheet, Test Pack Line List, P&IDs, Isometrics, Hydro test / Leak test Record, Pipework & Equipment Installation, Reinstatement Certificate, Punch list, and Piping Completion Certificate.
- Pump curves and pump selection process. Applying the working principle of pumps and evaluating their efficiency.
- Attending weekly progress meetings with the project team and other departments, indicating any bottlenecks and taking timely remedial action and follow-ups of progress through progress reports.

Solar Active (Schools & Homes Energy Education Project Ltd.)

Sheffield, UK

Mechanical Engineer

Nov. 2010 – Mar. 2013

- Worked on different projects on the education method, Energy Efficiency, and renewable energy resources.
- I looked into using alternative cheaper lightweight alloys & composites in design. I also researched the causes of different failures & fatigue.
- I visited different schools and colleges and provided support to students and teachers for Solar Challenges; using our solar car & boat, interactive demonstrations, carbon footprint, and energy efficiency.
- A conscientious team player with excellent problem-solving and troubleshooting skills.
- I also worked on the design and manufacture of a new eco-friendly high-efficiency insulation system, made from recycled materials to try to lower the carbon footprint of homes in the UK.

Honors & Awards

2020 **Staffordshire University UK**

Stoke On Trent, UK

- I got PhD scholarship which was just one seat for worldwide.

2014 **National Drilling Company,**

Abu Dhabi, UAE

- I got Best Performance award from Abu Dhabi National Oil Company (NDC).

2010 **Sheffield Hallam University,**

Sheffield, UK

- In my M.Sc. Advanced Mechanical Engineering degree, I got Overall "Merit".

2007 **International Islamic University Islamabad,**

Islamabad, Pakistan

- I got overall "Distinction" in my M.Sc. Mathematics degree.

Software Skills

- Auto CAD, Spoolgen, Smart plant review, Navisworks, Sigma Nest, Citrix, PDMS, and PV Elite.

Technical Skills

Proficient in:

- Preparation of G.A and Isometrics Drawings based on P&ID and plant layout.
- Piping Material Selection/Specification/Valve Data Sheets.

Knowledge of:

- Basic and Detail Engineering Design of Marine and Offshore projects.
- Process plant layout.
- Pipe Wall thickness calculation.
- Preparation of Marine P&ID for New Build Rigs and Barges.

Familiar with:

- International Design codes & Dimensional standards.
- Viz: ANSI/ASME, API, BS, ASTM & there use in design, analysis and calculation.
- Construction activities in yards.
- Offshore & Onshore System piping.