NOOR ALAM

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# Profile Summary

* Result-oriented, dynamic, and prolific mechanical engineer with 15+ years of excellence in oil & gas, petrochemical, and fertilizers sectors in field of project engineering, CAD designing, mechanical estimation, construction and maintenance, mechanical engineering processes, operations management, process management and risk management.
* Possesses great expertise in pressure vessel design, complex mechanical calculation, process piping design and drafting, reverse engineering, and online leakage rectification. Adept at conducting analysis, supervisory management, performance evaluation, loss elimination, risk mitigation and life cycle asset management.
* Highly skilled & capable individual with extraordinary abilities in project management, policy analysis and development & implementation of standard operating procedures; proficient at assembling project deliverables, developing & testing mechanical systems, creating detailed 3D models and drawings, designing blueprints, maintaining quality standards, and coordinating teams. Has demonstrated abilities in providing research, analytical, engineering and technical support.
* Meticulous & proactive team player with effective communication and organizational knacks. Has extraordinary decision-making abilities and is able to perform under pressure. Efficient in collaborating with other team members and accomplishing assigned tasks timely; capable of conducting training and improvising performance while ensuring compliance with organization’s policies and international standards.

# Core Strengths and Enabling Skills

Mechanical Engineering

Engineering Project Management

System design and analysis

Reliability Engineering

Equipment design and system calculations

Troubleshooting and problem solving

Technical Inspection and Support

Risk Assessment & Mitigation

Technical analysis & Report Writing

Team Building & Leadership Skills

# Professional Work Experience

**Discipline Engineer** (Feb, 2023 – Present)

### INTECH Process Automation

#### Major Responsibilities:

* Leading Mechanical side and managing EPC project of CI Injection, CI Transfer and CI Injection solar Skids, a project of Rumaila Operating Organization with Customer Woodplc.
* Manage vendors like metalFAB, Seko, Ruhrpumpen and YCV for project design, engineering, equipment and machinery manufacturer.
* Support SC (Solution Center) Team for bidding the project and technical solution on early stage of project to hunt project.
* Support budgeting and planning for projects.
* Ensure compliance with the law and the company’s policies.
* Manage a team in different disciplines working for CI Project.
* Provide support in FAT and Commissioning on sites.

**Head Tech (Project Engineering/Reliability Engineering)** (November 2019 – February 2023)

### Fatima Fertilizer Company Ltd. (Sadiq Abad, Pakistan)

#### Major Responsibilities:

* Expertly carrying out tasks regarding reliability project of Ammonia and Nitric Acid plant such as engineering calculations, remaining life estimation of piping, equipment and maintaining project documents and ensuring reliability and maintenance of plants.
* Shrewdly identifying and reducing risks of breakdown maintenance and developing inspection criteria; rendering technical support to production & maintenance departments and technical personnel
* Major Achievement:
* Proficiently handled projects of engineering packages of E-105 & E-106 , high pressure steam network stress analysis and replacement of cross over piping and outlet header of F-101 (Primary Reformer)

**Sr. Tech (Project Engineering)** (July 2016 – January 2020)

### Fatima Fertilizer Company Ltd. (Sadiq Abad, Pakistan)

#### Major Responsibilities:

* Administered project engineering section and fulfilled responsibilities regarding critical engineering calculations, built-in safety and cost-efficient engineering. Supervised project engineering team;
* Planned and managed construction projects and technical expertise in construction including post construction issues.
* Adeptly evaluated, devised, designed, set-up and managed liquid CO2 plant relocation
* Engineering, design & construction of Phos Acid Storage facility. Kept overall mechanical process document.
* To set up a complete compression facility of natural gas at Mari Site based on 04 additional Natural Gas Booster Compressor (NGBC) and 03 LPBC (Low pressure booster compressors)
* Fire deluge system for Ammonia, Urea and Nitric Acid plant
* Practiced mechanical estimation, design and engineering work including civil, structures, mechanical, piping, and project execution report.

**Tech-I (Project Engineering)** (January 2012 – July 2016)

### Fatima Fertilizer Company Ltd. (Sadiq Abad, Pakistan)

#### Major Responsibilities:

* Engineering package of cooling water booster pump for RW associated with canal water to RO Plant
* Configured new cooler for synthesis gas on ammonia plant; completed corrosion inhibitor injection unit for NG lines
* Ammonia storage tank escape route which comprised of spiral ladder and stair box
* Anti-caking agent dosing facility for UREA product

**Tech-II (Project Engineering)** (November 2008 – January 2012)

### Fatima Fertilizer Company Ltd. (Sadiq Abad, Pakistan)

#### Major Responsibilities:

* Played vital role as active member who can make decision from Fatima side and deal with Kawasaki Japan as complex engineering contractor.
* Responsible to review the mechanical design of NP (Nitro phosphate) Plant engineered by CFit India
* Complete offsite and utilities of Fatima complex Design and construction like 12 cell cooling tower, STG 6MW capacity, fire-fighting facility, EDG and effluent treatment facility.
* key role in engineering, designing, calculation, review and construction of Nitro phosphate project
* Played vital role as member in CDM (clean development mechanism) project as per EPA
* Capably transformed and modified ammonium nitrate plant while conforming to vendor and HAZOP recommendation.
* Designed Dedusting system including baghouse, fang and sheet & plate metal work for lime grinding unit CAN plant
* Considerably acquired hands-on experience by supervising design & construction of synthesis compressor condenser, vacuum system and ammonia compressor lube oil piping package
* Implemented modification in F-101 (Primary Reformer) including catalyst tubes flanges & collar replacement, transfer line Replacement, provision of utilities points, and transfer line holding arrangement for refractory lining
* Catacarb solution cleaning and storage projects including underground pit SS lining on ammonia plant
* Adroitly reviewed vibration RCA of 4th stage outlet of Co2 compressor and urea solution lines and drafted & presented reports to management while facilitating decision making regarding risk mitigation for plant tripping

**Tech-III (Project Engineering)** (November 2007 – November 2008)

### Fauji Fertilizer Bin Qasim Ltd. (Karachi, Pakistan)

#### Major Responsibilities:

* Worked independently and delivered projects. Rendered services for piping and steel structure drafting on DAP plant

**App. Tech (Project Engineering)** (January 2006 – November 2007)

### Fauji Fertilizer Bin Qasim Ltd. (Karachi, Pakistan)

#### Major Responsibilities:

* Training in project engineering.
* Training in plant maintenance.

# Education

May 2008

## MS Engineering Management

### The Superior University Lahore (Lahore, Pakistan)

November 1996

## BTECH-Bachelor of Technology Mechanical (Hons)

Dadaby Institute of Higher Education Karachi (Karachi, Pakistan)

May 1994

## BTECH-Bachelor of Technology Mechanical (Pass)

The Islamia University Bahwalpur (Bahwalpur, Pakistan)

May 1994

## DAE-Diploma in Associate Technology Mechanical

## Government College of Technology Rawilway Road Lahore.

**Punjab Board of Technical Education Lahore (Lahore, Pakistan)**

July 1992

**Matriculation**Govt. HIT High School Taxila Cantt (Rawalpindi, Pakistan)

**Board of Intermediate and Secondary Education Rawalpindi**

# Certifications/Achievements

2022

**Annual Achiever Award**

Fatima Fertilizer Company Ltd (Sadiq Abad, Pakistan)

2018

**Annual HSE Award**

Fatima Fertilizer Company Ltd (Sadiq Abad, Pakistan)

2017

**Value Star Award and Certificate in Annual Achiever Award**

Fatima Fertilizer Company Ltd (Sadiq Abad, Pakistan)

2014

**Value Star Award and Certificate**

Fatima Fertilizer Company Ltd (Sadiq Abad, Pakistan)

2012

**Near Miss Award and Certificate**

Fatima Fertilizer Company Ltd (Sadiq Abad, Pakistan)

2012

**Member National Technology Council Pakistan**

NTC number PE.Tech/Mechanical/00179

# Language Ability IELTS

Speaking 6.0 Bands

Writing 6.0 Bands

Reading 4.0 Bands

Listening 4.0 Bands

# Professional Development

30-05-2023

**McKinsey Forward Program**

McKinsey & Company

Skills Earned

McKinsey approach to problem solving

Effective and influential communicators

Adaptable and resilience mindsets and habits

Foundational digital toolkit through applying new ways of working and thinking for a digital world.

March 2023

**360 Skills Assessment report**

McKinsey & Company.

**Skills Assessed**

Lead Yourself and Others

Conquer Business Challenges

Navigate the Digital World

Lead Yourself and Others

2022

**Toyota 5S Methodology**

Indus Motor Company Limited

In partnership with

United Nation Association of Pakistan

Aug-2022 to Sep-2022

**Engineering Virtual Experience Program**

General Electric Company under the platform of Theforage.

Skilled gained.

Energy: Power Generation

Healthcare

Aviation Systems

Verification Code: W2FXRJdx6PKeRXyoR

Oct-2023 to Nov-2023

**Globally Responsible Engineering Job Simulation**

ENGINEERS WITHOUT BORDERS under the platform of Theforage.

Skilled gained.

The Role of Engineering

Participatory and inclusive approaches of Engineering

Principles in action

Critical Reflection

Verification Code: W2FXRJdx6PKeRXyoR

Nov-2023

**Explore Supply Chain Job Simulation**

General Electric Company under the platform of Theforage.

Skilled gained.

Determine critical requirements for a turbofan disassembly fixture.

Disposition non-conforming turbine blades

Verification Code: W2FXRJdx6PKeRXyoR

07 Apr. 2006 to 29 Apr. 2006

**Auto CAD and Piping Drafting certificate.**

CAD Consultant (Karachi, Pakistan)

20 Sep. 2010 to 24 Sep. 2010

**Piping Design Layout & Stress Analysis**

National Institute of Desing and Analysis (Lahore, Pakistan)

08 Jun 2015 to 11 Jun 2015

**Piping Layout & Design**

Descon Engineering (Lahore, Pakistan)

06 Feb. 2020 to Apr. 2020

**Auto CAD**

Digi skill Pakistan (Lahore, Pakistan)

16 Nov. 2022

**Introduction to piping vibration**

Wood Plc

08 Jun 2015 to 11 Jun 2015

**Piping Layout & Design**

Descon Engineering (Lahore, Pakistan)

01 Oct. 2018

**Lean Six sigma White Belt**

MSI Institute Australia

31 Mar. 2022

**Lean Six sigma White Belt**

Minitab

13 Oct. 2015

**Six Sigma White Belt**

Aveta Business Institute Singapore

06 Jun 2018

**Six Sigma Yellow Belt**

6sigmastudy

12 Sep 2020

**RBI\_-\_Webinar\_Certificate**

Velosi Asset Integrated Company

28 Nov 2020

**FFS-Webinar Certificate**

Velosi Asset Integrated Company

21 Dec. 2021

**Pressure\_Vessel\_Design-Webinar-Certificate**

Velosi Asset Integrated Company

20 Feb. 2021

**HAZOP - Webinar Certificate**

Velosi Asset Integrated Company

16 Nov. 2022

**Infection Prevention and Control Gnowbe Certificate**

NGEE ANN Politecnic https://be.gnowbe.com/m9rc5

13 Aug. 2020

**Coaching for Superior Performance**

FG Skill Academy

13 Aug. 2020

**Values & Behaviors**

FG Skill Academy

29 Jul. 2020

**Workplace Harassment**

FG Skill Academy

28 Jul. 2020

**COVID-19 Safety Training**

FG Skill Academy

26 Jul. 2020

**Emerging respiratory viruses, including COVID-19:**

**methods for detection, prevention, response and control**

World Health Organization

12 Jan. 2021

**Standard precautions: Hand hygiene**

World Health Organization

26 Jul. 2020

**Emerging respiratory viruses, including COVID-19:**

**methods for detection, prevention, response and control**

World Health Organization

25 Aug. 2020

**WHO COVID-19 Mass Gatherings Risk Assessment Training**

World Health Organization

20 Sep. 2012

**Firefighting techniques and fire prevention management.**

Centre for the Improvement of Working Conditions & Environment/Industrial Relations Institute Govt of Punjab.

30 Apr. 2019 to Jun 19

**Digi skill certificate of freelancer**

Digi skill Pakistan

03 Apr. 2019 to Jun 19

**E-COMMERCE MANAGEMENT course**

Digi skill Pakistan

04 Aug. 2019 to Oct 19

**CREATIVE WRITING course**

Digi skill Pakistan

09 Apr. 2022

**Oracle Primavera P6 Professional**

www.smartpmtraining.com

Mar. 2016

**Achieving Excellence**

Fatima Fertilizer Company Ltd.

**Inhouse Trainings**

**Firefighting & Fire Extinguishers**

**IMS (Integrated Management System)**

**PSM (Process Safety Management)**

**Train The Technical Trainer**

**Overall Plot Plan**

**Value And Behavior**

# Social Membership & Co-curricular / Leisure Activities

* Volunteer member of United Nation Pakistan
* Volunteer Working for SDO (Sustainable Works Organization)
* Blood donor member of Govt College of Technology Railway Road Lahore.

# Media Skills

* Faceless YouTuber maintains a YouTube Channel on Crypto Currency News. <https://www.youtube.com/@dfdsfs>
* Article on LinkedIn [(23) Pollution Problem in Pakistan | LinkedIn](https://www.linkedin.com/pulse/pollution-problem-pakistan-noor-alam/?trackingId=B%2BSvVzyaTxSHZnK9nsuvag%3D%3D)
* Article on LinkedIn [(23) Why the Pakistani nation is not taking the pandemic seriously? | LinkedIn](https://www.linkedin.com/pulse/why-pakistani-nation-taking-pandemic-seriously-noor-alam/?trackingId=B%2BSvVzyaTxSHZnK9nsuvag%3D%3D)
* YouTube interview <https://www.youtube.com/watch?v=Cd9LUg8Aq7A>
* Working on freelance platform like Fiverr <https://www.fiverr.com/noor_alam1?up_rollout=true>
* Healthy profile on LinkedIn <https://www.linkedin.com/in/noor-alam01/>

# Software Skills

* CAESAR-II (Process Piping Stress Analysis Software)
* Staad Pro (Steel Structure Analysis Software)
* SPSS (Research Analysis Software)
* CADWorkx (3D Piping Modeling Software)
* AutoCAD 3D&2D (General Design and drafting Software)
* Pipe Data Pro (Piping and Component Software)

# YouTuber Skills

* Content creation for websites and YouTube Videos using AI technology and without AI Technology
* WordPress
* Video creation by AI and Human
* Video Editing using Filmora Wondershare
* YouTube Thumbnails creation by using AI Technology and CANVA

# Technical Skills

* MS-Office
* Internet and Browsing
* Word Processing
* Soft Presentation

# Strengths

* R&D Skills
* Problem Solving and Decision Making Skills
* Faster and Quicker Adaptability
* Self-Motivated.
* Fluent Communicator with strong investigation
* Provide Business results
* Hard worker, committed dedicated and professional attitude.
* Strong documentation and presentation skills

# Personal Skills

* Communication skills
* Data management
* Equipment handling
* Team Work
* Quick Learner
* Ethical & Trustworthy
* Creative & Innovative
* Time Management
* Strong decision-making
* Think Proactively
* Manage multiple assignments & priorities efficiently
* Optimistic
* Hardworking
* Dedicated

# Personal Information

* Father’s Name : Mah Wali
* Passport : AZ1752983
* Date of birth : 05-01-1984
* Marital Status : Married
* Address : INTECH Process Automation 2nd Commercial Building, PCSIR Phase-II Lahore, Pakistan

# Reference

Professional personal references will be provided upon request