

Malik Shahzad Ahmed

Position: **Engineering Draftsman | 14+ Years Exp. | KSA Projects**
Membership ID: **1069982**
Saudi Engineering Council



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Location: Al-Khobar (KSA)

SUMMARY PROFILE

Highly skilled **Senior Engineering Draftsman** with over **14 years** of extensive experience in managing large-scale international construction projects, including **Seawater Reverse Osmosis Desalination (SWRO Plant), Power Plant, Wastewater Treatment Plants (WWTP & ISTP), Fire Protection upgrade Phase (Marafiq), Oil & Gas, and Infrastructure development Projects**. Skilled in efficiently managing the technical engineering department's resources, ensuring adherence to timelines, engineering standards, and construction techniques for both offshore and onshore projects. Excellent communication and interpersonal skills, capable of working effectively with cross-functional teams and clients. Possess a strong background in engineering, with problem-solving abilities and attention to detail, aimed at driving innovation and efficiency in engineering processes.

KEY SKILLS

- Technical Expertise:** Proficient in construction technologies, including reverse osmosis desalination plant, wastewater treatment plant, fire protection systems, HCIS Security System, power plant, and Infrastructure & Urbanizations Engineering.
- Engineering Expertise:** Prepared comprehensive design drawings, shop drawings, red-line markups and as-built drawings for both onshore & offshore projects, including Architectural, Concrete Structures, Reinforcement details, General Arrangements, Piping Layouts, Buried Wet utility Networks, Cable Routing, and Isometrics drawings, all tailored to reflect actual site conditions, project specifications, and client/consultant requirements, ensuring full compliance with engineering standards and regulatory codes.
- Leadership:** Team building, performance evaluation, and mentorship.
- Software Proficiency:** AutoCAD, Revit, MS Excel, MS Word, MS PowerPoint, Navisworks, Adobe Acrobat/Bluebeam Revu and engineering document control systems.
- Standards Knowledge:** Project Specifications, Engineering standards, HCIS compliance, ISO quality systems, and safety regulations.

OBJECTIVE STATEMENT:

As an Engineering Draftsman, my mission is to drive innovation and excellence by leading a team in developing cutting-edge solutions that meet and exceed client expectations. I am committed to fostering a culture of collaboration, creativity, and continuous improvement, while prioritizing cost estimation, construction, quality sustainability in all initiatives. By aligning engineering efforts with organizational goals and leveraging industry-best practices, I aim to enhance efficiency, optimize resources, and deliver exceptional value to client and stakeholders.

EDUCATION:

2009	Associate Engineering in Civil
2006	AutoCAD Diploma
2005	Intermediate in Computer Science
2002	Matric in Science

LANGUAGES:

English
Urdu
Hindi
Arabic

PROJECTS PORTFOLIO

Company: Acciona Agua

Sep-2022 to Jan-2025

Position: Senior Engineering Draftsman

Client: Saudi Water Partnership Company (SWPC)

Project: Wastewater Treatment Plant Phase III in Madinah with daily capacity of 200,000 m3 per day. Joint Venture (Acciona & Tawzea).



Company: Acciona Agua

Oct-2018 to Aug-2022

Position: Senior Engineering Draftsman

Client: Saline Water Conversion Corporation (SWCC)

Project: Sea Water Reverse Osmosis Desalination Plant Phase I (Acciona) with daily capacity of 210,000 m3 and Phase II Joint Venture (Acciona & RTCC) with daily capacity of 630,000 m3 per day. (Al-Khobar).



Company: GAMA Power System

Nov-2017 to Sep-2018

Position: Senior Drafting Design Engineer

Client: Saudi Electricity Company (SEC)

Project: 1800 MW PP13 Power Plant Installation of Power Island ME&I and Equipment. (DURMA RIYADH)



Company: Pan Gulf Industrial System (PGIS)

Nov-2015 to Oct-2017

Position: Senior Drafting Engineer

Client: Marafiq

Project: Marafiq Fire Protection System Upgrade Phase-1 Jubail Sites (SWC, SWTP, IWTP, WWO&M and NWPS)



Company: Tekfen

July-2015 to Oct-2015

Position: Senior Drafting Engineer (Civil & Mechanical)

Client: SADARA

Project: Sadara Propylene Oxide Process Unit in Jubail Plant.



TEKFEN CONSTRUCTION

Company: Al-Ayuni Investment & Contracting Company

Sep-2013 to June-2015

Position: Senior Draftsman (Civil & Mechanical)

Client: Royal Commission

Project: Infrastructure Royal Commission Project Site Development of Manufacturing Industries (Jubail)



Company: Beehives Construction Company

Feb-2011 to July-2013

Position: Draftsman (Civil)

Client: Valley Developers

Project: Infrastructure and Site Development.



MAIN FUNCTIONS AND RESPONSIBILITIES:

- Proficient in preparing detailed **Civil, Mechanical, Process, and Electrical design drawings** for both onshore and offshore projects, including greenfield and brownfield developments.
- Drafted **Mechanical General Arrangement (GA) drawings**, piping layout plans with sections and elevations, and detailed **isometric fabrication drawings**.
- Developed **comprehensive utility infrastructure drawings** including stormwater networks, Lifting stations, sewage systems, Concrete Chambers, sanitary water supply, Firefighting systems, street lighting, and road layouts for land development projects.
- Created **subsea piping layouts**, profiles, and detailed sections using **GRP and HDPE materials** (up to Ø3800 mm), including pipelines extending 2km into the sea.
- Verified field-executed works by cross-checking **dimensions, elevations, specifications, and equipment placements** for accurate as-built updates.
- Produced detailed **as-built documentation** for Architectural, Structural, Civil, Mechanical, and Electrical disciplines, incorporating actual site conditions and changes.
- Ensured **compliance of as-built drawings** with project standards, client specifications, and local authority regulations.
- Prepared, revised, and updated **shop drawings, red mark-ups, and as-built drawings**, ensuring clarity and precision for construction execution and handover documentation.
- Reviewed subcontractors' **construction drawings, technical submittals**, and responded to **RFIs and technical queries** to ensure alignment with design intent.
- Designed **high voltage cable duct banks** from GIS to transformers in brownfield environments, ensuring compatibility with existing infrastructure.
- Oversaw the design and coordination of **HCIS-compliant security systems**, including **fire protection and CCTV systems**, in line with Saudi HCIS standards.
- Proposed **constructible solutions** for technical challenges encountered during execution, including spatial constraints and system clashes.
- Collaborated with site engineers, QA/QC inspectors, and project managers to **incorporate field modifications** into final design packages.
- Utilized **mock-ups and site simulations** to validate technical feasibility and resolve coordination issues during design and construction phases.
- Acted as a **technical liaison** between client, consultant, and subcontractors, providing expert guidance on drawing interpretations and construction strategies.
- Monitored drawing revisions, **tracked version control**, and implemented consultant/client feedback for prompt approvals.
- Led and coordinated **drawing submissions**, ensuring timely delivery, quality checks, and proper documentation protocols.
- Managed document control activities including **DCR responses**, drawing logs, and drawing index tracking for ongoing and final submissions.
- Supported multi-disciplinary design teams by ensuring **interdisciplinary drawing alignment**, avoiding discrepancies in construction phases.
- Demonstrated **proficiency in AutoCAD, Civil 3D, and other CAD platforms**, with a focus on efficient drafting, layout optimization, and data integrity.

BIO:

Birth Date	=	22-June-1984
Nationality	=	Pakistani
Religion	=	Islam
Marital Status	=	Married

HOBBIES:

Design
Photography
Cricket
Social media