



# ENGR. MAJID MANZOOR MEMON

## CONTACT

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- Madinah Munawarah

## EDUCATION

### M.Sc. in Hydraulic & Irrigation Engineering

- Mehran University of Engineering & Technology (MUET), Jamshoro, Pakistan
- January 2008

### B.Sc. in Civil Engineering

- Mehran University of Engineering & Technology (MUET), Jamshoro, Pakistan
- 2000

## PERSONAL

- Nationality:** Pakistani
- Iqama Status:** Transferable
- Date of Birth:** 28th July 1975
- Civil Status:** Married

## CERTIFICATIONS

- Saudi Council of Engineers (SCE) Certification** - Professional Membership No. 87136, February 2024
- Autodesk-Civil 3D 2021** - Certificate of Completion, Riyadh, Saudi Arabia
- Autodesk-Civil 3D Infrastructure Training** - Certificate of Completion, Riyadh, Saudi Arabia
- Autodesk-Civil 3D Navisworks Manage** - Certificate of Completion, Riyadh, Saudi Arabia

## SKILLS

- Hydrology & Hydraulic Engineering:** Specialized in hydrologic and hydraulic analysis, watershed modeling, and stormwater drainage design.
- Stormwater Management:** Expertise in flood risk assessment, mitigation planning, and stormwater network design and supervision.

## OBJECTIVE

A seasoned Senior Hydrology & Hydraulic Engineer with over 23 years of comprehensive experience in designing, analyzing, and managing stormwater networks, hydrology, and hydraulic systems across various geographical regions, including Saudi Arabia and Pakistan. Expertise includes flood risk management, storm drainage systems, and hydraulic structure design. Highly skilled in the application of advanced software such as Sewer GEMS, GIS HEC-HMS, HEC-RAS, Civil 3D, and StormCAD, with a demonstrated ability to lead cross-functional teams and provide innovative solutions for complex water infrastructure projects.

## EXPERIENCE

### Sr. Hydraulic Engineer

Worley Parsons Arabian Limited - Jeddah, Saudi Arabia

#### October 2021 - Present

- Lead the review and design of the Jeddah Stormwater Program, including hydrological and hydraulic modelling, watershed studies, and flood mitigation strategies.
- Oversee the design of stormwater networks, including micro tunnels, box culverts, outfalls, and pump stations for Master planning of Jeddah city's 17 sub-areas.
- Conduct in-depth analysis using HEC-HMS, HEC-RAS, QGIS, and StormCAD.
- Supervise hydraulic structure design and project implementation, ensuring adherence to technical standards.
- Coordinate with design teams to resolve utility conflicts and integrate stormwater solutions with urban planning.

### Sr. Hydrology & Storm Drainage Engineer

Dar Al Riyadh Engineering Consultant - Riyadh, Saudi Arabia

#### January 2018 - September 2021

- Led the hydrology studies, flood risk assessments, and master planning for stormwater drainage networks across MODON industrial cities, ensuring alignment with client and regulatory standards.
- Reviewed and validated the design submissions from major consultants (AECOM, Dar Al Handasah, Parsons, Jacobs, etc.), covering stormwater drainage systems from concept to detailed IFC (Issued for Construction) stages.
- Conducted in-house hydrologic and hydraulic modeling using HEC-HMS, HEC-RAS, Civil 3D, and QGIS for flood risk analysis, stormwater master planning, and drainage infrastructure optimization.
- Coordinated multi-disciplinary teams to manage utility conflict resolution, prepared technical reports and task orders, and provided engineering support for construction supervision and quality assurance.

### Hydrologist/Civil Engineer

Atam Engineering Consults - Madinah Munawarah, Saudi Arabia

#### July 2013 - December 2017

- Directed the design and supervision of stormwater drainage systems, channels, and culverts for Madinah Municipality.

- **Civil Infrastructure Design:** Skilled in urban and rural road design, stormwater culverts, micro-tunneling, and hydraulic structures (channels, inlets, outlets, pump stations).
- **Project Management & Coordination:** Proven ability to manage multi-disciplinary teams, coordinate with clients and consultants, and ensure project delivery within time and quality standards.
- **Technical Review & Quality Assurance:** Experienced in reviewing hydrology reports, hydraulic modeling, shop drawings, design proposals, and resolving utility conflicts.

#### Software Proficiency:

- **Hydrology & Hydraulic Modeling:** HEC-HMS, HEC-RAS, WMS, FlowMaster, CulvertMaster
- **Civil Design & CAD Tools:** Autodesk Civil 3D, AutoCAD, Global Mapper, SewerGEMS, StormCAD, WaterCAD
- **GIS & Mapping:** QGIS, Global Mapper
- **Regulatory Compliance:** In-depth knowledge of Saudi Arabian standards (MOMRA, MODON, ARAMCO, RC) and international drainage and road design guidelines.
- **Problem Solving & Critical Thinking:** Adept at identifying engineering challenges, proposing cost-effective solutions, and optimizing designs for operational efficiency.
- **Reporting & Documentation:** Skilled in preparing technical reports, task orders, and presentations for engineering solutions and project progress.
- **Multilingual Communication:** Fluent in Arabic, English, Urdu, and Sindhi for effective communication in multi-cultural environments.

## AFFILIATIONS

- **Consultant Member,** Saudi Council of Engineers (SCE)
- **Consultant Member,** Pakistan Engineering Council (PEC)

## LANGUAGES

- Arabic
- English
- Urdu
- Sindhi

## SOFTWARE

- Autodesk-Civil 3D 2021
- HEC-HMS
- HEC-RAS
- QGIS
- WMS
- Sewer Gems
- Storm CAD
- Water CAD
- Global Mapper
- Flow Master
- Culvert Master
- Hydraulic Tools etc

- Provided technical support for hydrology and flood studies, contributing to the city's infrastructure improvements.
- Utilized advanced hydrological software to model stormwater networks and assess flood risks.

#### Civil Engineer

Zuhair Fayeز Partnership Consultants – Madinah Munawarah, Saudi Arabia

**May 2012 – June 2013**

- Led the design and supervision of urban roads, U-turns, parking areas, and landscape irrigation systems.
- Managed site supervision for construction of local and collector roads, ensuring compliance with project specifications.

#### Civil Engineer

Saud Consultants – Madinah Munawarah, Saudi Arabia

**March 2012 – April 2012**

- Supervised the construction of hydraulic structures, including culverts and inlets/outlets, and managed roadway widening projects.
- Performed detailed quantities calculations for infrastructure projects.

#### Civil Engineer

Abdul Rehman Al-Naim Consultants – Madinah Munawarah, Saudi Arabia

**June 2010 – February 2012**

- Provided supervision and design support for local and urban road projects in Madinah Al Munawarah.
- Managed construction activities for drainage systems and hydraulic structures.

#### Civil Engineer

Water Management Public Works Department – Sindh, Pakistan

**January 2006 – May 2010**

- Supervised the execution of water management projects, including channel lining and hydraulic structure construction.
- Contributed to the design and supervision of public works infrastructure.

#### Civil Engineer

Niaz Khan and Brothers Consultants – Hyderabad, Pakistan

**January 2002 – November 2005**

- Managed road design and construction projects, preparing material estimates and quantities for rural and urban roads.

#### Civil Engineer

Royal Construction Company Consultants – Hyderabad, Pakistan

**December 2000 – December 2001**

- Oversaw building construction projects, ensuring quality control and accurate material quantity calculations.