

## CIVIL ENGINEER (M.ENG, BSC-C.ENG, PE)

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📍 Tank, Pakistan 29400

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WWW: Online Profile

### WEBSITES, PORTFOLIOS, PROFILES

- <https://web.facebook.com/profile.php?id=100004691765737>
- <https://my.indeed.com/p/bccivilengineeri-ay8ulal>
- <https://www.linkedin.com/in/muhammad-iqbal9a185259>

### PROFESSIONAL SUMMARY

I am a Dynamic and results-driven Civil Engineer with 23+ years of leadership experience in delivering large-scale infrastructure projects—including highways, bridges, Fly overs, dams, and irrigation systems—on time and within budget. Combines a Master in Construction Engineering and Management with hands-on field expertise to deliver high performance project execution. I have Proven track record to oversee planning, execution and delivery while ensuring compliance with quality control and cost efficiency. Adept at guiding multidisciplinary teams, resolving complex challenges, and optimizing project performance. Strong track record in aligning client, contractor, and government agency objectives through effective communication and contract administration.

### WORK HISTORY

#### Principal Engineer/ Resident Engineer

Jul 2023 - Current

Techno Consult International | Karachi, Pakistan

- Project: 59 m high and 1137m long rock filled Embankment dam with central clay core, 5000 acres reservoir area with a gross storage capacity of 0.30 MAF. Irrigation system, Power House 4.3 MW, and Access Roads 15km with Two Prestressed Bridges over the Spillways estimated at 85 billion PKR. Executed by WAPDA Pakistan.
- As Resident Engineer Project ( on-site Custodian), Spearheaded a high-performing team of 30, driving measurable improvements in productivity and work quality through strategic reorganization, hands-on leadership, and continuous mentorship.
- As the onsite custodian of the project, resolved critical design challenges related to spillways and access roads by efficiently coordinating with the CRE and design team, earning formal recognition for outstanding performance.
- Championed an inclusive and discrimination-free work environment, ensuring equal opportunities while optimizing team cohesion and output
- Maintained adherence to technical specifications and refined QAQC methodologies.
- Collaborated with key parties to mitigate on-site problems and streamline schedules.

#### Executive Project Engineer/Chief Resident Engineer

Oct 2019 - May 2023

Rehman Habib Consultants | Quetta, Pakistan

Delivered large-scale infrastructure under Government-directed initiatives, enhancing regional water resources.

- Directed a large-scale project involving 28 diverse dams with heights from 19m to 30m and lengths ranging from 90m to 2632m , including Delay Action, modified homogeneous, and gravity types, spread throughout the province,
- Led management of a consultant team totaling 65 members.
- Revitalized the project quality by 50% through optimized management plans and adhering to QA and QC standards, technical specifications, construction drawings,
- Collaborated with design office to prepare revised drawings of 12 dams, cost analysis-estimation of 28 subprojects, proposed design changes in 6 dams based on actual site geology conditions.
- Resolved site issues through local engagement, leading to the revival of seven abandoned dams.
- Analyzed project scheduling concerns and resolved contract-related discrepancies effectively.
- Verified payment certificates of 16 construction firms, finalized 45 variation orders, bills of quantities, checked and approved shop drawings of spillways and intake towers of 28 subprojects.
- Analyzed submitted schedules of works, streamlined and standardized testing of construction materials, developed weekly and monthly progress reports of 28 dams and drafted 500 formal communications to the contractors.

#### Senior Project Engineer/Resident Engineer

Feb 2016 - Feb 2019

JV-CIV-TECH Associates & EPAC Consultants | South Waziristan , Pakistan

- Led construction of embankment irrigation dam with a gross storage capacity of 2040 AF, height of 32m, and length of 498m and drinking water supply scheme for 400 houses.
- Enhanced quality of works by 75% through meticulous implementation.
- Oversaw design revisions tailored to site conditions and organizational directives.
- Generated and validated contract change orders for three projects and certifications for eleven IPCs.
- Convinced stakeholders by proposing solutions to overcome challenges.
- Organized and guided the geotechnical drilling of 5 holes and collected the samples in the redesign stage.
- Introduced construction schedule by critical path method in Primavera P6 and persuaded contractor for construction execution and procurement of resources to meet the completion duration.

## Project Engineer/Assistant Resident Engineer

Aug 2015 - Jan 2016

EA Consultancy Pvt.Ltd | Peshawar, Pakistan

Project: 5 Months Fast Track Project: Construction of 3 Flyovers at Phase III Entry-Jamrud Road Peshawar including HMA surfacing. estimated at 1.75 billion PKR, executed by Peshawar Development Authority (PDA)

- Managed the supervision and monitoring of reinforcement, RCC concrete and prestressing works (bored cast in situ piles of 368 Nos and Prestressed box bridges of 197 Nos), construction of 3-Flyovers total length of 1950m including hot mix asphalt surfacing and urban drainage system with total bid value of 1.75 billion PKR.
- Supported technical team of 7 employees in executing quality assurance and control standards.
- Checked and verified bar bending schedule of 197 Prestressed Girders, 368 RCC piles, 45 Pile-Caps, 45 Transom Shafts, 45 Transoms, Bridge decks and RCC sewerage conduits,
- Liaised efficiently with contractor for issue resolution.

## Construction Manager

Jan 2015 - Jul 2015

Shaukat Khan & Company Pvt. Ltd | Tank, Pakistan

Project: Gomal Zam Dam Multipurpose Project Irrigation Component GZD-03-F-Irrigation canals, minors, and distributaries, estimated at 80 million PKR. Water & Power Development Authority, KPK

- Developed and advocated construction plan for 32 km of irrigation canals with appurtenant structures including service roads.
- Supervised the operations of 15-member team and machinery crew.
- forecasted, scheduled, and created project plans with established timelines and managed workflow during the construction phase using company resources while keeping in view the cost and quality constraints.

## Senior Project Engineer/Resident Engineer

Jan 2013 - Nov 2014

JV: CIV-TECH Associates & EPAC Consultants | Tank, Pakistan

Project: Construction of Sheen Kach Earth Dam-FR TANK with appurtenant structures and Irrigation system, estimated at 180 million PKR, executed by FATA Development Authority, KPK

- Oversaw construction of 21m high, 200m long embankment zoned with central clay core for storage capacity up to 2416 AF.
- Utilized and guided field staff of 4 members to ensure work at site is in strict compliance with FIDIC, ASTM, ACI, and AASHTO standards and project specifications. Tracked and boosted progress, presented proposals to protect the spillway and access road against damaging effects of flash floods, approved 2 variations in quantities and work schedules.
- Coordinated and communicated with project contractors, spoke to people of local community.

## Senior Project Engineer/Resident Engineer

Apr 2010 - Dec 2012

M/S NESPAK Pvt.Ltd | South Waziristan, Pakistan

Project: USAID-funded, Quick Impact Projects in FATA, Construction & rehabilitation of HMA Roads and structures estimated at 14 billion PKR. Executed by FATA Development Corporation

- Oversaw design and build contracts for USAID-funded Quick Impact Projects in FATA region supervising construction and rehabilitation of 383 km road network including cross drainage and retaining structures comprising of 722 Nos culverts and retaining structures.
- Produced new horizontal alignment and profile using Civil 3D and AutoCAD for updated road configurations.
- Collaborated with design teams by offering insights and practical recommendations for improving structural designs.

## Project Engineer /Assistant Resident Engineer

Jan 2008 - Mar 2010

M/s ACE (Pvt) Ltd. | Shangla, Pakistan

Project: Asian Development Bank Assisted Earthquake Emergency Assistance Project EEAP-Construction & Rehabilitation of Roads in District Battagram, District Shangla & District Kohistan, executed by Work and Service Department, KPK.

Led a team of 7 members, overseeing construction supervision for the ADB Assisted Earthquake Emergency Assistance Project.

Informed municipal officials, stakeholders, and the public through detailed reports on environmental impacts of proposed civil initiatives.

Prepared take-offs for project costing related to 14 roads in two districts and determined location, type, size and quantity of cross drainage structures based on hydrology and area geology

## Senior Project Engineer/ Resident Engineer

Nov 2006 - Dec 2007

M/s ACC & SMEC International Pty Ltd | Zhob, Pakistan

Led ADB-assisted ICB-05 Projects in Baluchistan for highway construction spanning 102km and managed construction of 177 slab culverts, 68 RCC box culverts and 5 prestressed Bridges.

**Site Supervisor/ QC Inspector**

Jan 2005 - Oct 2006

M/s ACE (Pvt) Ltd. | Zhob, Pakistan

. Executed quality inspections during the construction of six bridges and corresponding approach roads with budget of 260 million PKR.

**Site Civil Engineer**

Feb 2002 - Dec 2004

M/s AMCO (Pvt) Ltd | Quetta, Pakistan

Managed site operations for bridge and road construction for National Highway Authority, with a budget of 60 million PKR.

**Trainee Engineer**

Apr 2001 - Dec 2001

FWO | Dera Ismail Khan, Pakistan

Worked as trainee on construction project encompassing 124 km highway, bridges and protection features.

## EDUCATION

**Master of Science:** Construction Engineering And Management

May 2019

IQRA NATIONAL UNIVERSITY - Peshawar-KPK | PAK

CGPA: 3.1  
 Financial Management, Project Management, Risk Management, Human Resource Management, Construction Law, and Pavement Material Construction and Design,  
 PUBLICATIONS: Factors Affecting the Performance of Construction Projects in Pakistan  
[https://www.journalimcms.org/?s=Muhammad+iqbal&searchsubmit=U&post\\_type=journal](https://www.journalimcms.org/?s=Muhammad+iqbal&searchsubmit=U&post_type=journal)  
 Project Assignments: Improvement of road foundation by blending of materials. The fall of the World Trade Center after terrorist attacks. Management Theories. Modern Road Construction Machinery

**Bachelor of Science:** Civil Engineering

May 2001

CECOS UNIVERSITY OF IT & EMERGING SCIENCES - Peshawar-KPK | PAK

Engineering, Highway & Railway Engineering, Design of Structures, Pavement & Foundation, Hydraulic Engineering, and Irrigation Engineering). Grade-A1 Thesis: Design of Flexible pavement

## SKILLS

Education and advanced knowledge	My master's paper has reads of 1323, 43 citations, and a research integrity score of 38.5 on ResearGate.
Certificate courses in SAP2000 and AutoCAD.	I have proficiency in Civil 3D, Primavera P6, MS Word, MS Excel, and PowerPoint.
Technical and Engineering Proficiency	Onsite supervision management of Large-Scale Infrastructure Projects (Highways, Bridges, Flyovers, Dams, Irrigation)
Structural Design Review & Analysis of highway RCC structures, Embankment and gravity dam Components, realignment of Roads.	Review and aproval of method statements, construction schedule, x-section of earthwork, shop drawings and bar bending schedule of RCC structures.
Review and certification of payment certificates, cost estimation, variation orders and technical sanction.	project reporting and documenting.
Geotechnical & Material knowledge.	<b>Project &amp; Construction Management:</b>
End-to-End Project Lifecycle Management (Planning to Handover)	Primavera P6   Agile Project Management
Budgeting & Cost Control   Risk	Contract Administration (FIDIC)

# MUHAMMAD IQBAL

## Assessment & Mitigation

### Leadership:

Strategic Decision-Making | Problem-Solving

Quality Assurance/Quality Control (QA/QC) | HSE Compliance

Oral: Telephonic contact and video conferencing (Google meet, WhatsApp groups). Public meetings with city council members, village leaders, homeowners, villagers, political heads.

### Soft Skills:

## Claims & Dispute Resolution

Multidisciplinary Team Leadership | Stakeholder Management

Client & Government Liaison | Negotiation

### Communication:

Written: presentations, e-mailing, drafting business letters to contractors, designers and project directors, keeping project notebooks, giving proposals using MS-office and CAD tools, developing inspection checklists for supervision purposes, progress reporting.

I am industrious, Resilient, organized, and loyal. Face problems and don't give up until the issues are resolved, stay for long in the company, work beyond my job description, believe in teamwork, disciplined, and follow company rules and principles.

## ACCOMPLISHMENTS

- . At 100 dams project, successfully led a 65-member team across 28 sub-projects spanning 44% of the country's area, improving management systems through accountability, discipline, and staff training. Streamlined material testing procedures, earning recognition from upper management.
- . At the Shakai Dam project, I applied expertise in hydrology, hydraulics, and geotechnical engineering to relocate the intake tower to stable shale rock, preventing flood damage. Redesigned spillway alignment using Civil 3D, securing designer approval and ensuring structural safety.
- . As a Key Project Engineer (High-Risk Tribal Areas), I Solely managed technical supervision of USAID-funded road/bridge projects worth 25B+ PKR in high-risk militant zones after other engineers refused and ensured on-time completion, enabling safe access and economic growth for 2M+ residents in tribal regions.
- . As a Senior Engineer at RHC I resolved stalled design issues for 5 dam sites by collaborating with project directors and design teams, enabling work to resume Proposed design modifications for 6 dams based on on-site geology, enhancing stability, safety, and sustainability. Identified seepage risks in embankments and recommended \*\*clay core zones to ensure impermeability, leading to approved revisions.
- . As Senior Project Engineer – NESPAK. I applied structural design expertise and proficiency in Civil 3D, AutoCAD & MS-Excel to resolve road realignment, drainage, and retaining structure issues. Addressed delays caused by inadequate site evaluation by providing optimized engineering solutions.

## AFFILIATIONS

Member and professional Engineer status in the Pakistan Engineering Council, Reg.No: civil/25814  
2006 to current.  
Membership of the Institute of Civil Engineers, ICE Membership No: 92731030, London, United Kingdom

## SOFTWARE

AUTOCAD

Autodesk civil 3D

Primavera p6

MS- office

## LANGUAGES

English

Upper intermediate (B2)

Pashto

Bilingual or Proficient (C2)

Urdu

Bilingual or Proficient (C2)

## CERTIFICATIONS

Autocad	Feb 2002
SAP 2000	Apr 2022
Basic Planning Engineer Course (ConstructionScheduling and Planning) (Planningengineer.net	Oct 2019
Work Shop on Contract Management EarthQuake Reconstruction and Rehabilitation Authority (ERRA, Pakistan01 August, 2008)FIDIC Red Book Construction Contract Management.	Aug 2008

REFERENCE

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Engr. SHOAIB TAREEN (Project Director at Irrigation Division, Baluchistan.  
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KHURSHEED ZAMAN BHATTI (Project Manager at RHC, Lahore  
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Reference Type: Professional Colleague  
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