

**Engr. Rehan Jamil****Civil Engineer****(Specialty: Water Resources & Plumbing Engineering)**

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Department of Building Engineering, College of Architecture & Planning,  
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**PERSONAL STATEMENT**

I am a Water Resources Engineer with over 12 years of national & international experience of Plumbing/Hydraulics, Fire Fighting, Irrigation & Infra-Structure design and teaching. After gaining rich experience in the field of practical design for about 8 years, I switched over to the academic field to employ my qualification, skills, trainings and my experience to transfer knowledge to the students leading them to become a fruitful professional for the nation. Currently I am working in a prestigious institution as a faculty member since Mar 2013.

I have the abilities to deliver knowledge and to teach any subject related with my basic field of Civil Engineering or Water Resources & Irrigation Engineering.

**KEY SKILLS****Technical Skills**

- Design of Plumbing/Hydraulic Systems
  - Water Supply
  - Sanitary & Storm Drainage
  - Grey-Water Recycling
  - Pumping Stations
  - Swimming Pools
- Design of Irrigation Systems
- Design of Fire Fighting (Sprinkler & Hose) Systems
- Command on Plumbing & Fire Fighting Standards & Design Codes
  - International Plumbing Code
  - Saudi Plumbing Code
  - American Society of Plumbing Engineers Code
  - International Fire Code, NFPA 10, 13, 14 & 20
  - Plumbing Related BS & ASTM Standards

**Computer Skills**

- Plumbing Design Software EPA-Net, EPA-SWMM, Pipe Flow Expert, SHC Sprinkler
- 3D Surface Modelling Software Surfer, QuikGrid
- Statistical Analysis Software SPSS, UNI-STAT
- Engineering Drawing Software AutoCAD
- Complete Command on MS Office (Word, Excel, PowerPoint, Outlook)
- Advanced Level Computer Hardware & Software Troubleshooting

**PERSONAL BIO-DATA**

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|---------------------------|---|
| ▪ Father's Name           | Muhammad Jamil-ur-Rehman  |
| ▪ Date of Birth           | April 26, 1983  |
| ▪ Nationality             | Pakistan  |
| ▪ Marital Status          | Married   |
| ▪ Professional Membership | - Pakistan Engineering Council<br>- Saudi Council of Engineers<br>- American Society of Civil Engineers |

## EDUCATION

- **MS Water Resources & Irrigation Engineering, CGPA 3.96/4.00 with Honors**  
University of Engineering & Technology, Taxila, Pakistan  
2008-2010
- **BE Civil Engineering, CGPA 3.59/4.00 with Honors**  
National University of Sciences & Technology, Islamabad, Pakistan (Risalpur Campus)  
2001-2005
- **HSSC (Pre-Engineering) & SSC (Science), 1<sup>st</sup> Division**  
F.G. College, Sialkot & Army Public College, Rawalpindi, Pakistan  
1998-2001

## RESEARCH & PUBLICATIONS

- M. Essam Shaawat, **Rehan Jamil**, 2014, *A Guide to Environmental Building Rating System For Construction of New Buildings in Saudi Arabia*, Emirates Journal for Engineering Research, Vol. 19, No. 2, Page 47-56
- **Rehan Jamil**, 2015, *Estimation of Sediment Deposition at Nausehri Reservoir by Multiple Linear Regression and Assessment of its Effects on Reservoir Life and Power Generation Capacity*, International Journal of Advanced Thermofluid Research, Vol. 1, No. 2, Page 46-59
- **Rehan Jamil**, 2016, *Conserving The Religious and Traditional Values of Muslims with a Dome-less Mosque Architecture: A Case Study of Shah Faisal Mosque, Islamabad*, Proceedings of The First International Conference on Mosque Architecture, University of Dammam, Dec 5-7, 2016, Page 245-260
- **Rehan Jamil**, 2017, *Role of a Dome-Less Mosque in Conserving the Religious and Traditional Values of Muslims: An Innovative Architecture of Shah Faisal Mosque, Islamabad*, International Journal of Architecture, Engineering and Construction, Vol. 6, No. 2, Page 40-45
- M. Essam Shaawat, **Rehan Jamil**, Mohammed M. Al-Enezi, 2018, *Analysis of Challenges in Sustainable Construction Industry by Using Analytic Hierarchy Process: A Case Study of Jubail Industrial City, Saudi Arabia*, International Journal of Sustainable Real Estate and Construction Economics, Vol. 1, No. 2, Page 109-122
- **Rehan Jamil**, 2018, *Performance of a New Pipe Material UHMWPE against Disinfectant Decay in Water Distribution Networks*, Clean Technologies and Environmental Policy, Vol. 20, No. 6, Page 1287-1296

## HONORS & AWARDS

- Obtained overall 1<sup>st</sup> Position in university in MS (Water Resources and Irrigation Engineering) by securing CGPA 3.96/4.00
- Obtained 1<sup>st</sup> Position in final year of BE (Civil) by securing GPA 3.86/4.00 and overall 2<sup>nd</sup> Position
- An Appointment Holder throughout my academic career as Monitor/Prefect in school, Proctor in college and College Junior Under Officer in university
- Received Honorarium (Cash Award) in 2008 from NESPAK in recognition of excellent performance
- Promoted as Senior Engineer on the basis of outstanding performance in 2009 while in NESPAK
- Received Letter of Appreciation in 2011 from NESPAK in recognition of best performance
- Received Certificate of Appreciation in 2012 from IHCC in recognition of devoted services for ISO 9001:2008 certification of the Company
- Declared Best Faculty of the Department and was awarded Certificate in 2015 by The Department of Building Engineering, University of Dammam
- Received Certificate of Appreciation in 2018 from Imam Abdulrahman Bin Faisal University in recognition of devoted services for NCAAA certification of the Department of Building Engineering

## COURSES & TRAININGS

- Construction Technology Management & Planning at Descon Engg. Ltd, Global Head Quarter, Lahore (Sept 2005)
- Writing Skills at NESPAK, Islamabad (Jul 2006)
- Project Management at NESPAK, Islamabad (June 2006)
- Geometric Design of Roads on Eagle Point-Road Calc & Surface Modeling (Feb 2007)
- Time Management at NESPAK, Islamabad (Aug 2010)
- Technical Report Writing at NESPAK, Islamabad (May 2011)
- Presentation Skills at NESPAK, Islamabad (June 2011)
- ISO Internal Quality Auditor for ISO 9001:2008 at IHCC, Jeddah, Kingdom of Saudi Arabia (Mar 2012)
- Key Performance Indicators and Benchmarking for Academic Programs at IAU, Dammam, Kingdom of Saudi Arabia (Mar 2017)

## EMPLOYMENT RECORD

- **Senior Lecturer**

Imam AbdulRahman Bin Faisal University | Dammam, Saudi Arabia |  
(Formerly: University of Dammam)  
*Mar 2013 – To Date*

### Responsibilities

- Working in College of Architecture & Planning in the Department of Building Engineering.  
Teaching various courses for Graduate and Under Graduate programs including Fluid Mechanics, Public Health Engineering (Plumbing Systems, Advanced Plumbing Design in Buildings), Fire Protection & Life Safety, Probability & Advanced Statistics through lectures. Other responsibilities are
- To improve and develop the course outline as per the advancements in the professional Engineering & Architectural market
  - To guide students about the Building Plumbing Systems during their projects in Design Studios.
  - Working on funded research projects and research papers as Principal Researcher.
  - Supervising under graduate final year projects.
  - Working on accreditation of the Bachelor's Degree Program of department in NCAAA.

- **Senior Plumbing Design Engineer**

International Hospitals Construction Company | Jeddah, Saudi Arabia |  
*Feb 2012 – Feb 2013*

### Responsibilities

- Worked as **Section Head** of Plumbing Design Section for Planning and Designing Public Health and Infrastructure amenities, inside and outside the buildings. Major responsibilities were
- To review design of all on-going projects
  - To prepare tender documents i.e. design drawings, bill of quantities, technical specifications & miscellaneous details of Plumbing services as per requirement
  - To develop work instructions related to Plumbing and issue to site for conformance
  - To coordinate with Architectural, Electrical, Mechanical & Structural design sections for providing the required respective data for incorporation in their drawings.
  - Technical review of quotations and submittals of Plumbing equipment, to be installed on the projects.
  - To supervise the team of quantity surveyors and draftsmen for timely completion of bill of quantities and design drawings
  - To visit the project sites for technical assistance required by the site staff or to assess the quality of work being done at site related to Plumbing
  - To conduct Internal Quality Audits of different office departments and also project sites as per the audit plan and procedures of the organization confirming to ISO 9001:2008
  - To prepare audit checklists and audit reports of the internal audits conducted
  - To act as Design Department Representative during external audits done by TUV-NORD

- **Senior Plumbing Design Engineer** (*July 2009 – Feb 2012*)
- **Plumbing Design Engineer** (*Nov 2005 – July 2009*)

National Engineering Services Pakistan | Islamabad, Pakistan |  
*Nov 2005 – Feb 2012*

#### Responsibilities

Worked as **Team Leader** of Plumbing Design Section for Planning and Designing Public Health and Infrastructure amenities, inside and outside the buildings. Major responsibilities were

- To prepare tender documents i.e. design drawings, bill of quantities, Engineer's estimates, technical specifications & miscellaneous details of Plumbing services as per requirement
- To coordinate with Architectural, Electrical, Mechanical & Structural design sections for providing the required respective data for incorporation in their drawings.
- Technical review of quotations and submittals of Plumbing equipment, to be installed on the projects.
- To supervise the team of quantity surveyors and draftsmen for timely completion of bill of quantities and design drawings
- To visit the project sites for technical assistance required by the site staff or to assess the quality of work being done at site related to Plumbing
- To review and comment Plumbing shop drawings submitted by Contractor
- To develop technical specifications of all Plumbing components as per the international standards
- To coordinate with the Client to attain his requirements about the project related with Plumbing
- To attend and arrange meetings with the Client and Contractor to resolve any issues related with Plumbing design and execution on site
- To communicate with the suppliers regarding the submission of technical quotations of Plumbing equipment
- To act as Plumbing design section representative during internal quality audits done by Audit Department NESPAK and also during external audits done by Moody International
- To deliver lectures to the internees coming through National Internship Program to provide them the insight knowledge Plumbing systems of the buildings and external works

- **QHSE Engineer**

Descon Engineering | Lahore, Pakistan |  
*Sept 2005 – Nov 2005*

#### Responsibilities

Worked as Quality Health Safety Environment Engineer for maintaining the QHSE Policy of the organization. Major responsibilities were

- To conduct and organize Fire Drills with in the office building
- To prepare the Emergency Evacuation Plan
- To prepare presentations to spread awareness of the Importance of QHSE among the employees
- To prepare and maintain the internal audit reports already done in the near past

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#### SEMINARS / CONFERENCES ATTENDED

- National Seminar on GIS Application to Automated Hydraulic Modeling, NWFP UET, Peshawar, Pakistan (May 2004)
- International Conference on Floods 2010: A Dialogue to Transform Devastation to Opportunity, NUST, Islamabad, Pakistan (Feb 2011)
- Construction Week Jeddah Expansion 2012 Conference, Jeddah, Saudi Arabia (Mar 2012)
- 2<sup>nd</sup> Prescriptive to Performance (P2P) Conference : Introduction of Performance Specifications as Alternative to Prescriptive Specifications, Al Khobar, Saudi Arabia (May 2013)
- Foundation FieldBus Technology Seminar, Al Khobar, Saudi Arabia (Jun 2013)
- The First International Conference on Mosque Architecture, University of Dammam, Saudi Arabia (Dec 2016)

### **EXHIBITIONS ATTENDED**

- 16<sup>th</sup> HVACR Expo, “Heating, Ventilation, Air Conditioning, Refrigeration Expo”, Islamabad, Pakistan (May 2009)
  - The Big 5, “International Construction & Building Exhibition”, Jeddah, Kingdom of Saudi Arabia (Mar 2012)
  - 4<sup>th</sup> Saudi TransTec International, “Transportation, Materials Handling, Warehousing & Logistics Exhibition”, Dammam, Kingdom of Saudi Arabia (Dec 2013)
  - 16<sup>th</sup> Saudi Buildex, “International Building & Construction Exhibition”, Dammam, Kingdom of Saudi Arabia (Feb 2014)
  - 7<sup>th</sup> PetroEnvironment, “Symposium & Exhibition on Environmental Progress in the Petroleum & Petrochemical Industry”, Al Khobar, Kingdom of Saudi Arabia (Feb 2014)
  - 4<sup>th</sup> Saudi Safety & Security, “International Exhibition for Fire Safety, Security & Civil Defense”, Dammam, Kingdom of Saudi Arabia (Mar 2014)
  - WEPower, “Water, Electricity & Power Generation Forum and Exhibition”, Dammam, Kingdom of Saudi Arabia (May 2014)
  - “Plastics & Petrochem Arabia Exhibition”, Dammam, Kingdom of Saudi Arabia (Sep 2014)
  - 8<sup>th</sup> Industrial Open House 2018, Capital University of Science and Technology, Islamabad, Pakistan (Jul 2018)
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### **COMMUNICATION SKILLS**

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|------------------|-------------------------------------|
| ▪ Urdu & English | Good in Speaking, Reading & Writing |
| ▪ Punjabi        | Good in Speaking                    |
| ▪ Arabic         | Good in Reading, Fair in Speaking   |
| ▪ Hindi          | Good in Reading & Writing           |
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