



Muhammad Junaid Khan

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ABOUT ME

Seasoned Engineering, Project Management & Quality Assurance professional with extensive experience in global infrastructure industry. Proficient in requirement analysis, design, integration, planning and execution of projects. In-depth knowledge of Project Management methodologies, business analysis techniques and QA/QC best practices. Highly skilled in CAD/CAM, AutoCAD, MicroStation, ProjectWise apps. Adept in cross functional teams management, leadership and eager to contribute towards organizational success.

WORK EXPERIENCE

02/2024 - CURRENT Islamabad, Pakistan

IT PROJECT MANAGER FREELANCE - SELF EMPLOYED

- Provide technical expertise and support for Bentley software including all iModel Connectors, MicroStation, ProjectWise, OpenBuildings, OpenPlant, OpenRoads, AutoPlant, ProStructures, Navigator (Design Review) and Automation Services.
- Provide technical support and guidance for Autodesk software including AutoCAD, Revit, Inventor, Civil3D, Design Review and Navisworks.
- Provide engineering design (2D/3D), analysis, simulation and modeling services to clients across different industries.
- Support all DGN, DWG, IFC, SKP and commonly used interchangeable file formats, Import and Export, Point Clouds and Reality Mesh, iTwin and iModel (.i.dgn, .imodel, .ibim) workflows for design review on desktop, mobile or web apps.
- Manage quality engineering projects from initiation to delivery, ensuring project goals and objectives are met.
- Deliver high-quality projects, including engineering design, analysis, and modeling services.
- Ensure compliance with industry standards, regulations, and company quality policies.
- Collaborate with clients to understand project requirements and deliver tailored solutions.
- Develop and implement customized workflows, automation scripts, and plugins (object enablers) to enhance software functionality.
- Conduct training sessions and workshops for clients and internal teams on Bentley and Autodesk software.
- Stay up-to-date with the latest software updates, features, and industry trends.
- Drive continuous improvement initiatives, implementing process enhancements and best practices.

02/2008 - 01/2024 Islamabad, Pakistan

PRINCIPAL QUALITY ANALYST (ENGINEERING MANAGER) BENTLEY SYSTEMS

- Technically lead QA/Dev teams of professionals across all global regions in Scrums/Sprints and to provide software solutions that are consumed by millions of users.
- Design, analysis, Dev/QA of multiple iModel/iTwin desktop, mobile and web-based applications (~25x) and their bi-weekly releases, specifically iModel Connectors for MicroStation, Civil3D and SmartPlant Instrumentation.
- Supervised design, engineering, and operations teams, to ensure quality and reliability of projects using MicroStation-CAD, ProjectWise, OpenBuildings, OpenPlant, OpenRoads, AutoPlant, Navigator (Design Review).
- Work closely with cross-functional engineering teams to understand business requirements, ensure the technical feasibility and align the projects and products initiatives with organizational objectives.
- Conducting quality inspections, risk assessments and effectively communicate project status and progress to stakeholders and leadership. Managing project schedules and resources, by ensuring its required progress and quality.
- Leading the team with agile mindset by transferring company culture and assigning tasks to team and ensuring implementation as per requirements, also identify opportunities for process improvements and innovation.
- Ownership for all communication; including status reporting, risk management, escalation of potential issues that require proactive communication.
- Documenting processes, review and provide feedback, technical guidance to all users on Bentley Communities, Yammer Groups regarding review or consumption of iModels (BIM format).
- Onsite consultation with users in case of critical issues, debugging them and provide immediate workarounds to fix the problems.

- Design complete test architecture including user acceptance tests, functional, regression, integration, compatibility, performance, load, client/server tests etc.
- Support and integration of automation tests in different stages of CI/CD pipelines, by utilizing up-to-date baselines/benchmarks for data validation etc.
- Execution of Manifest API tests using Swagger or Postman, plus validation, maintenance and execution of automated scripts using Python, Microsoft Test Manager, QA Tools, command-line batch, macros/VBAs etc.
- Develop and test database tables and verify consistency and correctness of SQL data. Utilize Power BI for visualization of key performance indicators (KPIs), trends, and metric, also providing valuable insights to both Dev and PMs.
- Ensure up-to-date test plans, unit tests, technical documentation, online wikis, specifications, requirements gathering and acceptance criteria after consultation with all the Dev/QA and PM leads.
- Track and communicate team velocity, sprint planning, release progress, retrospectives and daily stand-ups. Effectively communicate project status and progress to stakeholders and leadership.
- Performed end-to-end employee life cycle activities from hiring, mentoring, knowledge sharing, capacity and professional development to conflict resolution etc.

01/2006 – 02/2008 Islamabad, Pakistan

ASSISTANT MANAGER (TECHNICAL) NATIONAL DEVELOPMENT COMPLEX, NESCOM

- Led a team to manage manufacturing design, integration and production for different R&D projects.
- Overseeing maintenance and repairs of equipment and facilities.
- Supervising a team of technicians and engineers, managing inventory and procurement of spare parts and equipment.
- Documenting processes and keeping maintenance records, troubleshooting and resolving mechanical issues.
- Coordinating with team members and stakeholders and ensuring project progress and quality.
- Supervised draftsmen working on Pro-E, Auto-CAD and CADKey applications for mechanical workshop work orders, including part modeling and assembly drawings.
- Prepared & maintained documentation SOP's (Standard Operating Procedures), ATP's (Acceptance Test Procedures), Log Book etc.
- Completed OHSAS-18001 training, prepared disaster/risk reduction, planning, policies & strategies for the entire production site. Ensuring compliance with safety and health regulations.
- Worked as site safety officer & coordinator for the entire site, comprising of more than 100 team members.
- Supervised workshops including fitting, machine, and paint shops.

11/2005 – 01/2006 Wah, Pakistan

TRAINEE ENGINEER (PRODUCTION) FAUJI CEMENT COMPANY LIMITED

- Worked as production and maintenance engineer. Including preventive maintenance, general inspection of machinery, lubrication of conveyers, belts, and chains etc.
- Supervised manufacturing/maintenance of mechanical parts & assemblies.
- Completed entire plant & processes orientation and working of plant central control room.

EDUCATION AND TRAINING

01/08/2012 – 31/07/2016 Rawalpindi, Pakistan

MASTER OF SCIENCE - PROJECT MANAGEMENT Riphah International University (Grade A+, CGPA 3.86 / 4.0)

Website <https://riphah.edu.pk/>

01/07/2007 – 31/07/2009 Wah, Pakistan

MASTER'S DEGREE (PGD) - INDUSTRIAL MANUFACTURING University of Engineering and Technology, Taxila (Grade A)

Website <https://uettaxila.edu.pk/>

01/01/2002 – 25/05/2005 Rawalpindi, Pakistan

BACHELOR'S DEGREE - MECHANICAL ENGINEERING National University of Sciences and Technology (NUST), College of E&ME. (Grade A, CGPA 3.05 / 4.0)

Website <https://nust.edu.pk/>

20/12/2022 – 30/12/2022

SECURE SOFTWARE DESIGN AND CODING Bentley Learn Institute Training

15/09/2017 – 21/09/2017

FOREIGN CORRUPT PRACTICES ACT Bentley Learn Institute Training

15/06/2016 – 22/06/2016

GETTING STARTED POWER BI TRAINING PluralSight.com

30/04/2011 – 21/05/2011

MICROSTATION V8I ESSENTIALS 2D/3D CERTIFICATION Bentley Learn Institute Training

01/01/2010 – 10/01/2010

SCRUM FUNDAMENTALS TRAINING PluralSight.com

01/12/2002 – 31/05/2003

AUTOCAD (BASIC & ADVANCE) CERTIFICATION Autodesk Inc. USA

Website <https://www.autodesk.com/>

TYPING TEST CERTIFICATION ~70 WPM & 99% ACCURACY www.typing.com

● **CONFERENCES AND SEMINARS**

08/10/2022 – 29/10/2022 Islamabad

AGILE FOR HR TRAINING WORKSHOP

Prudential Solutions (Private) Limited

03/09/2022 – 17/09/2022 Islamabad

SCRUM MASTER TRAINING WORKSHOP

Prudential Solutions (Private) Limited

02/09/2015 – 06/09/2015 Islamabad

WORKING AS HIGH PERFORMING TEAM TRAINING WORKSHOP

DDI Pvt. Ltd.

01/04/2014 – 15/04/2014 Islamabad

NEW MANAGER PITFALLS - WORKING AND COMMUNICATING WITH DIFFERENT PERSONALITIES

Bentley Learn Institute Training

01/12/2013 – 10/12/2013 Islamabad

EFFECTIVE TESTER TRAINING WORKSHOP

CISOL Pvt. Ltd

13/01/2009 – 18/01/2009 Islamabad

PERFORMANCE & LOAD TESTING TOOLS WORKSHOP

National University of Sciences and Technology (NUST)

26/06/2006 – 30/06/2006 Islamabad

OHSAS - 18001 INTERNAL AUDITOR WORKSHOP

Breakthrough Business Solutions, Singapore.

● **HONOURS AND AWARDS**

03/2023

STAR - Connectors and Manifest API integration with ProjectWise365 – Bentley Systems

- Updated applications include ProjectWise365, SYNCHRO Unified Portal and Manifest, with synchronization capabilities such as Saved Search, ProjectWise attributes, and document codes to iModels.

06/2022

STARs - Taking over the Dev/QA of new iModel Connectors, resolving critical user issues and releases during Covid19. - Bentley Systems

- Releasing Connectors (like Revit, IFC, Vue, SPPID, Aveva PID, AVEVA Diagrams, Navisworks, Smart Instrumentation, PlantSight Open3D Model, Civil3D) that needed specific application knowledge and complex workflows synchronizing files into iModels.
- In Q1, 2021 for great team effort during Covid-19 times and resolving critical issues for the Bentley's priority clients.
- In July 2013 for CH2MHILL (P&G) on-site visit to Ohio, USA to standardize i-Models as project handover mechanism.

● **NETWORKS AND MEMBERSHIPS**

01/2006 - CURRENT Islamabad

CERTIFIED MEMBER OF PAKISTAN ENGINEERING COUNCIL

PEC (Registration # MECH / 24883).

www.pec.org.pk

● **VOLUNTEERING**

01/2014 - 02/2024 Islamabad, Rawalpindi and KPK

Bentley STEM Projects

Lead multiple STEM grant program/projects (annual basis) on behalf of Bentley Systems Pakistan, for the vision of giving back to the society and helping the underprivileged students in the field of Science, Technology, Engineering and Mathematics. These projects really helped uplifting the infrastructure of local govt. school including PCs, Printers, Multimedia and Science lab equipment's/instruments etc.

● **DIGITAL SKILLS**

Management

Primavera P6 (Resource Management) | Power BI Power App | IBM Statistical package for Sciences (SPSS) | Microsoft Office: Word, Excel, PowerPoint, Outlook, Access, Visio, Project, ... | Project Tracking (Burndown Chart, Gantt Chart, Roadmap) | Risk Management Skills

Modeling Softwares

Autodesk Navisworks Freedom | AutoCAD and Inventor CAD program | ProStructures | Engineering simulation (ANSYS) | Bentley Openplant Suite/Connect Edition | ProEngineer Wildfire | AutoCad 2D -3D | Drawing software: AutoCAD, REVIT | Bentley Microstation (Advanced) | Bentley AECOSim / Openbuildings Designer | Bentley OpenRoads (Beginner) | Bentley ProjectWise iTwin

Agile - IT

Agile Methodologies (Scrum Kanban) | Visual Studio Professional 2019 | C / C++, Python, Java, HTML, SQL | Experience in using Postman tools for API testing. | Sprint Retrospective | Azure DevOps & VSTS | Hypervisor (VMWARE, Hyper-V) | SwaggerUI | Portal Azure