**Arbaz Khan Mohammed**

**Local to Fridley, MN (Willing to relocate)**

**Summary**

* Dedicated and accomplished Civil Engineer specializing in public infrastructure development and community-focused engineering solutions.
* Proven expertise in designing, managing, and executing large scale civil projects that enhance public safety, accessibility, and sustainability. Skilled in preparing detailed engineering drawings, conducting field inspections, and ensuring compliance with environmental and safety standards.
* Certified in AutoCAD, Civil 3D, ETABS, and OSHA 30, with a commitment to leveraging advanced tools and methodologies to improve public infrastructure.
* Experienced in collaborating with diverse stakeholders, including government agencies, contractors, and community members, to deliver projects that meet the needs of the public.
* Currently pursuing EIT certification to further contribute to the development of innovative and impactful engineering solutions**.**

**Education**

* Executive Masters In Engineering Management , St Cloud State University - MINNESOTA , May 2025
* Master Of Science In Structural Engineering , J.N Technology University – INDIA, Apr 2019
* Bachelor Of Science In Civil Engineering , J.N Technology University - INDIA , May 2016

**Certifications**

* EIT (pursuing)
* CIVIL 3D
* ETABS
* OSHA 10
* OSHA 30
* Auto Cad
* Fundamental of Engineering (pursuing)
* NHI ( BRIDGES )
* Project Management Foundation

**Skills**

* AutoCAD
* Civil 3D
* ETABS and Manual Designing
* Arc GIS Pro
* Construction Inspection
* Roadway Design and Planning
* Regulatory Compliance (State/Federal Standards)
* Right-of-Way (ROW) Negotiation
* Structural analysis
* REVIT
* Arc Map
* Cost Estimation and Budgeting

**Experience**

**CIVIL DESIGN ENGINEER (CONTRACT) Sept 2024 - Present**

**Public Infrastructure Design & Coordination (50%)**

**ITASCA COUNTY -MN**

* Designed and implemented complex engineering solutions for public roadway and infrastructure projects to enhance safety, accessibility, and sustainability in the community.
* Authored and reviewed specifications, contract provisions, and detailed highway construction plans using AutoCAD Civil 3D and other engineering software.
* Facilitated public land use by interpreting property descriptions and negotiating highway easements for construction projects, prioritizing minimal disruption to community stakeholders.
* Coordinated with senior staff and stakeholders to deliver transportation projects aligned with public safety and efficiency standards.

**Construction Oversight & Public Engagement (40%)**

* Conducted on-site observations for grading, paving, and bridge projects, ensuring adherence to design specifications and public safety standards.
* Prepared pay vouchers, supplemental agreements, and contract work orders to maintain transparency and accountability in project management.
* Organized and led meetings with contractors, utility companies, and community stakeholders to streamline construction activities and address public concerns.

**Achievements:**

* Successfully worked on public infrastructure projects within a $9 million annual highway construction budget, optimizing resource allocation and ensuring cost-effective delivery.
* Enhanced public safety by designing and executing roadway improvements, reducing traffic congestion, and improving mobility for all users.

**CIVIL ENGINEER January 2017 - July 2022**

**Project 1- M.M Heights- Hyderabad, India**

**METRO ENGINEERING CONSULTANT -INDIA**

* Designed a 10-story commercial building using AutoCAD. Resulting in reduction in construction costs and increase in energy efficiency.
* Teamed up with Structural Designers and Contractors to ensure structural designs were compatible with other aspects of the project, resulting in a 95% satisfaction rate from project stakeholders.
* Carried out field inspections and surveys to assess existing conditions and identify potential safety hazards, resulting in reduction in accidents and injuries on construction sites.

**Project 2- Tri-light Apartments- Hyderabad, India**

* Developed plans, specifications, and cost estimates for a $5M Commercial project, completing the project on time and within budget.
* Operated AutoCAD and Civil 3D software to create design models for a 5-story residential building and also used ETABS for Structural design resulting in reduction of Design time.
* Inspected and monitored the construction of the building, ensuring adherence to design specifications as per Code provisions and achieving zero safety incidents throughout the project.

**Project 3- Willmore Complex- Hyderabad, India**

* Worked with CAD designing teams to gain proficiency in AutoCAD and also worked on Civil 3D to improve design on a 3-storey residential structure
* Performed calculations to determine loads, stresses, and deformations in structures for a 3-story office building as per the code book and cross checked the result of software, which gave real time hands-on experience in design field.
* Prepared accurate cost estimates, bids, and contracts, leading to a 10% increase in project profitability and successful negotiation of favorable terms with clients and contractors.

**CIVIL ENGINEERING TUTOR (Part time) Sept 2016 – May 2022**

**MIND STRETCHER ACADEMY - INDIA**

* Tutored undergraduate students in the evening time for civil engineering discipline, including:
* Strength of Materials: Stress-strain relationships, torsion, bending, and shear force analysis.
* Fluid Mechanics and Hydraulics: Fluid properties, fluid flow in pipes, open channel flow.
* Design of Reinforced Concrete Structures: Taught designing reinforced concrete beams, columns, slabs, and footing, also trained them on ETABS.
* Surveying: Land surveying, including the use of modern surveying equipment like Microstation.
* Water Resource Engineering: Lectured hydrology, water supply, sewers and wastewater treatment.
* Probability and Statistics: Explained concepts of probability distribution, Discrete probability, Testing of Hypothesis, statistical methods and their applications in engineering.
* Mathematics 1, 2, 3, and 4: Covered topics ranging from calculus, linear algebra, differential equations, and advanced engineering mathematics.