

ZAHOOR KHAN

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OBJECTIVE

Dedicated and enthusiastic Civil Engineer motivated to learn and work in a challenging, multicultural and professional environment where I can excel my skills and where hard work can add value to the organization. I strongly believe in the mantra "Be the best of whatever you are".

ACADEMIC QUALIFICATIONS

Ghulam Ishaq Khan Institute of Engineering Sciences and Technology (GIKI) <i>Bachelor of Science in Civil Engineering</i> <ul style="list-style-type: none">CGPA: 3.39/4.00	2019 –2023 <i>Topi, KP</i>
College Swat <i>F. Sc Pre-Engineering</i> <ul style="list-style-type: none">Grade: A1	2017 –2019 <i>Swat, KP</i>
Government Centennial Model High School No 1 Hangu <i>Matric</i> <ul style="list-style-type: none">Grade: A	2015 –2017 <i>Hangu, KP</i>

WORK EXPERIENCE

SUI SOUTHERN GAS COMPANY LIMITED (SSGCL) <i>Trainee Engineer</i> <ul style="list-style-type: none">Worked closely with professionals to prepare the tender documents and quotations for civil works.Managing customers daily grievances and complaints, on average 20 per day, encompassing domestic, commercial, and industrial.Leading two maintenance teams of 15 individuals to address the 70,000 customer issues within the zonal area.Identified and handled 50 theft cases, which reduced the zonal UFG by 5%.	Karachi, Pakistan <i>Jan 2024 – Present</i>
WATER AND POWER DEVELOPMENT AUTHORITY (WAPDA) <i>Engineer Intern</i> <ul style="list-style-type: none">Collaborated with professionals from diverse cultural backgrounds, fostering a global perspective and improving interpersonal skills.Gained insights into the critical role of dams in eliminating water scarcity, food insecurity, and economic instability within Pakistan.Acquired knowledge spanning the entire dam construction process, from feasibility studies to project completion.Gained invaluable hands-on experience by participating in activities at the Tarbela and Mangla dams, enhancing my understanding of real-world engineering challenges.Developed a strong passion for engineering and a commitment to be an enthusiastic and technically proficient engineer.	Lahore, Pakistan <i>July 2022 – Sept 2022</i>
NATIONAL HIGHWAY AUTHORITY (NHA) <i>Engineer Intern</i> <ul style="list-style-type: none">During the NHA internship in MATRACON on the dualization of Indus Highway (N55) Package II from Karak to Kohat, I was engaged with a diverse team of experts, including site inspectors, lab engineers, and technicians, gaining practical experience in various aspects of highway construction.Conducted site inspections for critical activities such as bridge steel erection, breast wall concreting, and pile concreting using Tremie Pipe, contributing to project quality and safety.Developed precise skills in reading and interpreting engineering drawings, ensuring accurate implementation of project plans.Gained proficiency in road survey techniques, including alignment and elevation assessment.Conducted both field and laboratory tests, enhancing my knowledge of materials and quality control processes in construction projects.	Karak, Pakistan <i>Aug 2021 – Sept 2021</i>

- Successfully managed request filing processes and adhered to approval standards, demonstrating strong organizational and compliance skills.

AWARDS AND ACHEIVEMENTS

- Treasurer, Institution of Civil Engineers (ICE) - GIKI Chapter
- Awarded Dean's Honor Roll Certificate for securing the highest distinction in the 5th,7th, and 8th Semesters.
- Awarded FATA merit-based scholarship in University (Worth 3.5 million PKR) in Session 2019-2023.
- Awarded FATA merit-based scholarship in College (Worth 0.7 million PKR) in Session 2017-2019.

SKILLS

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| <ul style="list-style-type: none"> • AutoCAD • Arc GIS • Primavera P6 • ETABS 2016, SAP2000, SAFE 2016 • MS Office (Word, Excel, and Power Point) | <ul style="list-style-type: none"> • Leadership • Effective Communication • Flexibility and Adaptation • Teamwork and Collaboration • Task Oriented and Time Management |
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CERTIFICATIONS

- Google Project Management_Coursera
- 5s and KAIZEN Session Toyota_UNAP
- Primavera P6 Project Planning and Scheduling_Udemy

ACADEMIC PROJECTS

- **Senior Design Project:** “Concrete Crack Repair Analysis Using Geo-Polymer Cement”.
Cracks in a concrete structure are the most common problem in engineering practices. To overcome the issues of serviceability, strength, and deformation due to cracks and their propagation; geopolymer and engineered geopolymer composite were used as crack filler materials. The results revealed a remarkable recovery of 95% compressive strength. Furthermore, It was concluded that Engineered Geopolymer Composite with Polyethylene fibers (1.25% optimum) significantly enhances tensile and flexural strength. AI tool Gene X-Pro was used for the optimization of the mix design of geopolymer.
- **Construction Engineering:** Construction proposal of underground structures (TBM Tunneling) to resolve traffic, water supply, urban flooding, and sewerage issues in Karachi City based on its Population forecast and importance in the next 50 years.
- **Geotechnical engineering:** Design of diaphragm wall for braced excavation in a dense urban environment using PLAXIS Software.
- **Geo-Informatics:** Suggestion of possible measures for watershed management of an area through land classification and GIS Model. Arc GIS software was used to develop a digital elevation model (DEM), contours, delineate a river catchment, and estimate river cross-section based on DEM.
- **Highway Engineering:** Planning and design of road geometrics against a design speed of 35mph using remotely sensed data (using AASHTO Greenbook).
- **Structural Engineering:** Modeling and designing of a 2D frame system in **ETABS** and **SAP2000** for seismic and gravity load analysis.
- **Environmental Engineering:** Being part of society, conducted various water quality analysis tests on influent and effluent water samples of a water treatment plant in a nearby town.
- **Publication:** Published a conference Paper on the title of “Seismic Performance Assessment of Deteriorating Reinforced Concrete Box Culvert” in the 2ndInternational Conference on Advances in Civil and Environmental Engineering UET Taxila (ICACEE 2023) and Sustainable Structure and Material International Journal (SSMIJ).
<https://ssmij.org/index.php/ssm/article/view/112>