



ALIZER KHOWAJA

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EDUCATION

The University of Texas at Austin

B.S. Civil Engineering + Smart Cities Certificate | May 2022

EXPERIENCE

HNTB

Transit Engineer | June 2021 - Present

Transit Engineering Intern | May 2021 - May 2022

- Created rail-track schematic plans, analyzed locations of pedestrian/bike crossings and bus stops, compiled ROW acquisition data, and assessed flora impacts along LRT corridor
- Assembled engineering drawings depicting safety improvements for railroad grade crossings
- Attended meetings and site visits with stakeholders to review plans and discuss opportunities

The University of Texas at Austin

Research Assistant - Cockrell School of Engineering | May 2020 - May 2022

- Worked with Dr. Kara Kockelman and Matt Dean to quantify the emissions impact and feasibility of repurposed EV battery packs in residential settings
- Presented findings at the Bridging Transportation Researchers Conference
- Published research in the Journal of Energy Storage [doi.org/10.1016/j.est.2021.103628]

HDR

Traffic Engineering Intern | September 2019 - May 2020

- Conducted QA/QC of curb ramps, sidewalks, and street signs in cities throughout Texas
- Analyzed traffic studies and prepared deliverables for a traffic impact analysis (TIA) report
- Calculated construction and installation costs for various traffic projects

Transportation Engineering Intern | May 2019 - August 2019

- Created roadway schematic plans, calculated construction costs for feasibility studies, and conducted research on ongoing projects for technical reports
- Developed custom dashboards visualizing crash data to pinpoint areas of improvement

Columbia University

Sustainable Urbanization Team | Summer 2016

- Collaborated with Dr. Richard Plunz, Dr. Patricia Culligan, and students to design and conceptualize an art-based park located on the piers of west-central Manhattan
- Ideas (presented to NY City Council, US Army Corps. of Engineers, and Hudson River Park Trust) were implemented into local projects including the \$260 million Little Island Park and \$70 million Gansevoort Peninsula Park (opening 2023)

PROJECTS

Camp Mosaic | National Team | Present

- Info Coordinator (2019); Local Marketing Lead (2020); National DE&I Member (2021); National Data Manager (2022, 2023)

AKDN Kenya/Tanzania | Ambassador | 2017

- Visited key development sites over 4 weeks and created a sustainable development plan to enhance operations at St. Mary's Orphanage

HONORS

Eagle Scout | Certificate of Special Recognition from Former Congressman Kenny Marchant
Academy Undergraduate Researcher | The University of Texas at Austin
Photography Finalist | National Jubilee Arts Festival

SKILLS

Engineering | MicroStation, ConceptStation, AutoCAD, Civil3D, ArcGIS, Revit, Inventor, Synchro
Coding & Data | Java, Python, R, MATLAB, HTML, CSS, Tableau, Power BI
Design | SketchUp, Sketch, Photoshop, Illustrator, Final Cut Pro

INTERESTS

Career | Emerging Technologies, Sustainable Development, Urban Systems
Hobbies | Photography, Design, Reading, Finance, Cycling, Running, Golfing