



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 and Rail Engineering Intern | May 2021 - Present

- Created rail track schematic plans, assessed locations of pedestrian crossings and bus stops, compiled ROW acquisition data, and analyzed flora impacts along LRT corridor
- Assembled engineering drawings depicting safety improvements at grade crossings
- Met with stakeholders to discuss interests and opportunities regarding proposed plans

The University of Texas at Austin

Research Assistant - Urban Information Lab | Sept. 2019 - Present

- Assisting to collect, analyze, and visualize urban data for research projects
- Working with Dr. Junfeng Jiao to measure the effect of COVID-19 on transit systems

Research Assistant - Cockrell School of Engineering | May 2020 - Mar. 2021

- Working with Dr. Kara Kockelman to quantify the emissions impact and feasibility of repurposed EV battery packs in residential settings

HDR

Traffic Engineering Intern | Oct. 2019 - May 2020

- Conducted QA/QC of curb ramps, sidewalks, and street signs in Texas cities
- Prepared traffic analysis and deliverables for a full traffic impact analysis (TIA) report

Transportation Engineering Intern | Summer 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 through maps, charts, and graphs by manipulating raw data to pinpoint areas of improvement

Columbia University

Summer Program Team | Summer 2016

- Collaborated with Dr. Richard Plunz, Dr. Patricia Culligan, and international students to develop an art-based park located on the piers of west-central Manhattan
- Ideas (presented to NY City Council, Army Corps. of Engineers, and Hudson River Park Trust) have been implemented into local projects including the \$260 million Pier 55 Little Island Park (opened May 2021) and \$70 million Gansevoort Peninsula Park (opening 2023)

PROJECTS

Camp Mosaic | National Team | 2021

- Info Coord. for in-person (2019) camp;
- Resource Lead for virtual (2020) camp;
- National DEI Team Member (2021)

AKDN Kenya/Tanzania | Ambassador | 2017

- Visited key development sites over 4 weeks and created 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 (InRoads + Geopak), AutoCAD, Synchro, ArcGIS, Revit, Inventor
Coding & Data | Java, Python, MATLAB, HTML, CSS, Tableau, Power BI
Design | SketchUp, Sketch, Photoshop, Illustrator, Final Cut
Workflow | Apple iWork, Microsoft Office
Languages | English, Spanish, Urdu, Sindhi

INTERESTS

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