

Thomas Zhao

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privacy reasons.

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Phone redacted.

Education

Cornell University, College of Engineering (Class of 2023)

Bachelor's of Science: Civil Engineering

3.61 GPA

Academic Commitments & Recognitions

Association for Bridge Construction and Design, Western New York Chapter

2021 Recipient of the ABCD WNY Bachelor's Degree Scholarship

Cornell University Steel Bridge Project Team

Team Lead (May 2022 - Present); Welding Lead (May 2020 - May 2022)

- ❖ Designed and analyzed bridge skeletal frameworks with MASTAN2 according to annually-changing competition specifications, and modeled them in Fusion 360
- ❖ Coordinated welding operations on the bridge and trained twelve team members on MIG welding as the Welding Lead; placed third place overall out of seven teams
- ❖ Fostering a culture of learning as Team Lead and providing organization leadership

Recent Work Experience

Kimley Horn and Associates, Inc. -- White Plains, New York

Transportation Engineering Intern (May 2022 - August 2022)

- ❖ Processed vehicular counts into useful metrics, such as peak hour factor, for analysis
- ❖ Performed site visits of intersections to gather information, including signal timings
- ❖ Technically reviewed traffic components of Environmental Impact Statements
- ❖ Simulated future traffic projections caused by proposed developments in Synchro 11 and drafted Traffic Impact Statements documenting study methods and conclusions

Clark Construction Group, LLC. -- Bethesda, Maryland

Summer Associate (June 2021 - August 2021)

- ❖ Primarily worked on-site at the MD 355 Crossing Project and supported the team
- ❖ Wrote and posted RFIs, communicated with subcontractors, and gathered data
- ❖ Assisted the Quality Control Manager in performing quality control field inspections
- ❖ Completed and presented a Capstone Project about streamlining submittals
- ❖ Learned about and gain greater exposure to the construction industry through Summer Associate training courses and by visiting other on-going project sites

Coursework

Design of Concrete Structures, Statics & Solid Mechanics, Structural Modeling & Behavior, Intro. To Geotechnical Engineering, Intro. To Transportation Engineering, Fluid Mechanics

Technology Skills

- ❖ Experience with Python, Java, and MATLAB; front-end development (HTML, CSS)
- ❖ Familiarity with Microsoft Office (Word, Excel, PowerPoint)
- ❖ Exposed to BlueBeam, Smartsheet, Kahua, ITE Trip Generation, and Synchro 11
- ❖ CAD software used: AutoCAD, Civil 3D, Fusion 360, Revit