

Eli Trast - traste@berkeley.edu - (920) 660-8079

EDUCATION

University of California-Berkeley, anticipated May 2023

M.S. Civil Engineering in the Geosystem group

University of Wisconsin-Platteville, May 2022

GPA: 3.718/4.000

B.S. Civil Engineering with emphasis in Geotechnical Engineering
Minor in Mathematics

ENGINEERING EXPERIENCE

GEI Consultants, Inc., Green Bay, WI

Geotechnical Engineering Intern

May 2021- Present

- Wrote geotechnical exploration reports and third-party geotechnical reviews with resident engineers for buildings and CP railway
- Conducted rock core sampling, geoprobe sampling, fix piston sampling, and cross hole seismic testing on tailing basins and mines in Michigan and Minnesota
- Conducted laboratory testing, visual soil classification, and soil characterization from the geoprobe testing for the geotechnical exploration reports
- Compiled and analyzed data from the geoprobe sampling, fix piston sampling, and various instrumentation on tailing basins in Michigan and Minnesota to develop the next phases for the basins

Westwood Infrastructure, Inc., Appleton, WI

Geotechnical Engineering Intern

May - Aug 2020

- Wrote geotechnical exploration reports with resident engineers for buildings and WisDOT bridge projects
- Conducted atterbergs, hydrometers, and resistivity tests for various solar farms and wind farms across the US
- Conducted gradations, proctors, and broke concrete cylinders for road and airport construction in Wisconsin
- Conduct nuclear density testing and soil sampling for municipal subdivision expansions

CQM, Inc., Green Bay, WI

Intern

June - Aug 2019

- Conducted proctors, sieve analysis, and permeability tests for landfill CQA jobs in Wisconsin and Minnesota
- Conducted nondestructive and destructive tests on landfill liner seams, took measurements of the liner panels, and recorded all repairs, seams, panels, and test during landfill liner CQA jobs in Wisconsin and Minnesota

Cycling Infrastructure of the Netherlands, Zwolle, Netherlands

Student

May - June 2019

- Participated on a short-term faculty-led abroad course to experience and study the cycling infrastructure of the Netherlands
- Collaborated with Windesheim University of Applied Sciences mobility and traffic engineering faculty and students in Zwolle to complete a service-learning project

LEADERSHIP EXPERIENCE

American Society of Civil Engineers UW-Platteville Student Chapter

Sept 2018 - May 2022

President

Dec 2020 - Dec 2021

- Facilitated various speakers from companies, colleagues, and the Wisconsin Lieutenant Governor to speak at bi-weekly general business meetings
- Conducted weekly executive board meetings and helped manage a \$50,000 budget

Head of 2021 ASCE Virtual Concrete Canoe Competition+ (VCCC+) Committee

Nov 2019 – June 2021

- Coordinated and lead all meetings between university officials and the VCCC+ committee
- Coordinated and helped create the VCCC+ website and webpage through the university to facilitate sponsorships
- Helped coordinate the first ASCE Can Do Competition where we gave away \$2,000 in prizes during the VCCC+

Co-Chair of Annual ASCE Benchmark Golf Outing

Jan 2020 – Sept 2021

- Created golf outing webpage to facilitate sponsorships and online registration with the university
- Coordinated with peers, the university, and golf courses to provide a safe experience for all the attendees

Vice President

Dec 2018- Dec 2019

- Oversaw 10 chapter committees and helped managed a \$30,000 budget
- Represented UW-Platteville at 2019 ASCE Convention and the WSCL for our region

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Chi Epsilon UW-Platteville Chapter

May 2019 - May 2022

President

Aug 2020 - May 2022

- Conduct the recruitment and induction of new members each semester
- Coordinate volunteer activities with Adopt-A-Highway and Habitat for Humanity in the local area
- Contacted and had graduate schools including Michigan Tech, UW-Madison, and Iowa State to speak to members and CEE students

Steel Bridge Team

Sept 2018 - May 2022

Co-Chair of Steel Bridge Team

Sept 2020 - May 2021

- Helped design a 10:1 scale model of a bridge and manage a \$10,000 budget
- Team took 8th place at national and participated on the build team and load team for the competition

Residence Life: Resident Assistant

Aug 2019-May 2020

- Facilitated conflict resolutions conversations on my wing and while on call
- Planned monthly events for my residence hall to facilitate growth and an inclusive living environment
- Supported and promoted safe, clean, comfortable, and inclusive living environments as well as opportunities for individuals to be active participants in creating respectful and responsible learning communities

RESEARCH EXPERIENCE

Application of Drones and Digital Video Processing Technologies for Deflection Measurements of Bridge Girders

during Field Load Tests, University of Wisconsin-Platteville

Sept 2021 - May 2022

- Designed and poured 8 ft reinforced concrete beams with steel and fiberglass reinforcement
- Integrated drone technologies into an integrated process to calculate the displacement which will help maximize the effectiveness of load rating of bridges through field load tests
- Develop and validate the technique through a series of load tests in the Structural Laboratory at the University of Wisconsin-Platteville

TEACHING EXPERIENCE

Tutoring Services Tutor

Sept 2019 - May 2022

- Help students 7-12 hours a week understand the concepts in general engineering, civil engineering, and introductory chemistry courses

Geotechnical Engineering I Academic Student Assistant

Sept 2021 - May 2022

- Communicate with students 5 hours a week during office hours to help with the current lab and homework
- Construct, set up, and take down each week's laboratory activity to provide a smooth transition between the classroom and laboratory

AWARDS AND RECOGNITIONS

2022 New Faces of Civil Engineering Collegiate Honoree, Feb 2022

- 10 students chosen for their academic accomplishments and commitment to serving others, these well-rounded students reflect the hope and promise of the next generation of civil engineers

2022 Wisconsin Section Outstanding Senior Civil Engineering Student Award Recipient, May 2022

- 2 students chosen for individual achievement/service that demonstrates excellence in engineering academic achievement and service to the profession

UW-Platteville Alumni Association Lifetime Pioneer Award Recipient, May 2022

- 2 Graduating seniors who excel in academics, professional development, campus involvement, and leadership. They are strong supporters of UW-Platteville programs and possess the potential to become active members of the Alumni Association