Aditi Chockalingam

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Education

University of Illinois at Urbana-Champaign May 2025
Bachelor of Science in Civil and Environmental Engineering GPA: 3.5/4.00
Business Minor in Gies College of Business
Relevant Coursework: Engineering Graphics and Design, Construction Management, Management and Organizational Behavior

Internship Experience

M.A. Mortenson Engineering Field Intern **May 2023 – July 2023**

- Lead mechanical and electrical scopes utilizing engineering software and communicating with the crew and general foremen.
- Managed invoices, authored subcontractor contracts and prepared major and minor incident reports.
- Performed professional engineering responsibilities in a fast-paced environment with 12 hour work days, 5 days a week.

Leadership Experience

American Society of Civil Engineers – University of Illinois Chapter **December 2021 – Present**

External Vice President **January 2023 – Present**

- Implemented a sponsorship-based system to streamline company partnerships, increasing incoming funds by 50%.
- Coordinates general meetings and company events, writes sponsorship contracts, and leads the Engineering Open House effort.
- Manages a team of 4 officers in the external division and delegates tasks to increase team efficiency and success.
- Develops a comprehensive semester schedule along with contingency plans one semester ahead, contributing to the seamless execution of a successful semester with minimal challenges.

Industry Chair **December 2021 – December 2022**

- Used alumni and student connections to communicate with companies, organize meetings, company events and gain sponsorships.

Citizens' Climate Lobby **May 2020 - Present**

Youth Team Co-Lead | School Outreach Lead

- Contacts and lobbies The Energy Innovation and Carbon Dividend Act to 3 representatives of congress.
- Delegated tasks and implemented organizational systems to a team of 12 co-workers to maintain team efficiency, good communication and double productivity.
- Presented climate legislation to schools in 3 districts and 2 cities which resulted in 1 district passing a climate resolution.

Project Experience

3D Printing Concrete Research **February 2022 - January 2023**

- Develops, mixes, and utilizes specific, extrudable concrete mixes and performed experiments that tested the strength and stability of the resulting 3D printed concrete objects.
- Trained to handle specialized machinery such as a concrete mixer, Trambeam crane, aggregate sifter etc.
- Conducts experiments measuring the effect of different levels vibration on the interlocking mechanism of aggregates and identified and solved any potential problems that might arise.

ASCE Regional Conference and Student Symposium **January 2022 - April 2023**

Land Surveying Team Member

- Competed with 5 people in civil fieldwork competitions like pacing, leveling, creating a topographical map on Civil3D etc and trained in using specialized equipment such as a total station.

Sustainable Solutions Team Captain **January 2023 – April 2023**

- Led a team of 4 students to redesign a given plot of land with sustainability measures like LEED on SketchUp.

Concrete Canoe Construction Team **August 2021 – Present**

- Engaged in weekly meetings with a team of 15-20 to gather construction experience constructing a canoe out of concrete from scratch.

Revit Building Modeling **March 2022 – May 2022**

- Produced a digital replica of a university building using BIM software like Revit and SketchUp with 3 other students.
- Reviewed and updated construction drawings to gain familiarity with the 124,000-sf structure and used it to design our model

Feasibility Report Writing **August 2021 – December 2021**

- Collaborated with 3 other people to skillfully write a feasibility report from scratch determining the feasibility of incorporating energy efficient designs to a university building that is currently under construction.
- Researched energy efficient technologies, past projects, performed cost estimations and created work schedules to determine feasibility of implementation.

Applicable Skills & Honors

- **Awards:** 1st out of 16 schools in Field Surveying at ASCE Conference (2023), 3rd overall in Surveying out of 16 and 14 schools at ASCE Conference (2023, 2022), Honorable Mention in nationwide US EPA competition
- **Applications:** Autodesk Revit, Civil3D, Microsoft Suite, SketchUp, BlueBeam, ArcGIS
- **Programming Languages:** Python, MATLAB, R