Charles Bush

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SUMMARY

Dedicated Civil Engineering student with a strong foundation in structural analysis and design gained through diverse academic projects. Experience spans preparing construction documents, utilizing BIM technologies, and engaging with multidisciplinary teams to deliver impactful engineering solutions. Eager to contribute skills in Revit and AutoCAD to innovative projects while deepening understanding of tower crane engineering and shoring design. The opportunity to collaborate with experienced professionals at Apex Engineering Solutions excites a passion for real-world applications of engineering principles. Committed to making a meaningful impact on every project undertaken.

EDUCATION

Bachelor's Degree in Civil Engineering 2027

University of Illinois at Chicago GPA: 3.8 *Chicago, IL*

Coursework: *Soil Mechanics, Structural Analysis, Construction Materials, Dynamics*

TECHNICAL SKILLS

- **BIM Software:** Revit, Tekla, AutoCAD
- **Engineering Tools:** Structural Analysis, Design Layouts, Detailing
- **Project Management:** Task Monitoring, Team Coordination, Agile Methodologies
- **Testing Methods:** Prototype Development, Experiment Analysis, Peer Reviews
- **Sustainability Practices:** Material Efficiency, Environmental Impact, Shoring Solutions
- **Presentation Skills:** Technical Writing, Public Speaking, Document Preparation
- **Certification Programs:** OSHA, Autodesk
- **Design Standards:** Construction Compliance, Safety Regulations, Quality Assurance
- **Communication Tools:** Microsoft Teams, Zoom, Google Drive
- **Research Methodologies:** Data Collection, Literature Review, Results Presentation

SKILLS

- Structural Analysis
- Revit
- AutoCAD
- Tekla
- BIM Documentation
- Earth Retention Systems

EXPERIENCE

Structural Engineering Intern

June 2026 - Present

University Project *Remote*

Currently serving as a Structural Engineering Intern focusing on practical applications of civil engineering theory through hands-on project experience. Responsibilities include structural analysis and construction documentation preparation within a collaborative setting.

- Conducted structural analysis and design for capstone projects emphasizing steel and concrete systems, leading to a successful presentation.
- Collaborated on construction document preparation using Revit, enhancing visualization and coordination across disciplines.
- Participated in designing earth retention systems with rigorous temporary stability analyses ensuring safety.
- Engaged in value engineering discussions for cost-effective material use without compromising integrity.
- Assisted in detailing structural components to guarantee accuracy and compliance with standards.
- Coordinated closely with faculty advisors and industry professionals to refine processes and outcomes.

Research Assistant

September 2025 - May 2026

Academic Research *Chicago, IL*

Served as a Research Assistant supporting investigations into sustainable construction practices and their practicality in current projects. Focus was on materials efficiency.

- Analyzed the impacts of sustainable materials on efficiency and environmental consequences in construction.
- Developed prototypes for innovative shoring solutions which contributed to authoring research published in an engineering journal.
- Drafted detailed design layouts using AutoCAD for experimental setups aiding clear communication of objectives.
- Presented findings at an engineering conference, earning positive feedback from professionals in attendance.
- Contributed actively to report and presentation preparations, improving critical technical and writing skills.
- Provided peer reviews that enhanced the quality of research outputs and overall learning effectiveness.

Team Member March 2025

Hackathon Project *Chicago, IL*

Participated as a team member in a competitive hackathon aimed at solving urban infrastructure challenges with emerging engineering solutions.

- Designed a prototype for a modular shoring system rapidly deployable at construction sites, enhancing operational safety.
- Worked collaboratively with a team of engineers to brainstorm innovative approaches, resulting in a top-three finish.
- Crafted a compelling presentation and demo for judges highlighting the prototype's potential impacts on efficiency.
- Employed project management tools to effectively monitor progress and streamline task allocation among teammates.
- Gained positive insights into working under pressure, fostering adaptive problem-solving and dynamic collaboration.
- Strengthened abilities to translate concepts into functional designs differentiating solutions from competitors.

LEADERSHIP & AWARDS

- Dean's List, University of Illinois at Chicago (2025)
- Winner, Chicago Engineering Hackathon (2025)

CERTIFICATIONS

- Autodesk Certified Professional: Revit for Structural Design 2026
- OSHA 10-Hour Construction Safety Certification 2026

PROFESSIONAL AFFILIATIONS

- Member, American Society of Civil Engineers, UIC Chapter
- Participant, Engineering Student Council, UIC

LANGUAGES

- English (Native)
- Spanish (Proficient)

ADDITIONAL INFORMATION

Work Status : Authorized to work in United States. No sponsorship required.

REFERENCES

AVAILABLE ON REQUEST