



# Karan Norman

## Civil Design Engineer

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### SUMMARY

Dedicated Civil Engineering professional adept in solving complex problems related to infrastructure design, including stormwater management and roadways. Skilled in applying civil engineering principles with a strong foundation in CAD software for project specifications. Proven ability to collaborate with multidisciplinary teams, ensuring high-quality outcomes that meet both industry standards and community needs. Committed to continuous learning and professional development, actively pursuing the Engineer-in-Training license to enhance expertise further.

### EDUCATION

#### Bachelor of Science in Civil Engineering

University of Illinois at Chicago 🎓 GPA: 3.8 📅 2026 📍 Chicago, IL

**Coursework:** *Hydraulics, Material Science, Structural Analysis, Environmental Engineering*

### TECHNICAL SKILLS

- **CAD Software:** MicroStation, Geopak, AutoCAD
- **Simulation Tools:** MATLAB, HEC-RAS, EPANET
- **Project Management Tools:** Trello, Asana, Microsoft Project
- **Quantification Tools:** Quantity Take-off Software, Excel, Computer-Aided Design
- **Collaboration Platforms:** Microsoft Teams, Slack, Google Drive
- **Research Software:** SPSS, R, Python
- **Data Analysis Tools:** Tableau, ArcGIS, CAD Applications
- **Documentation Standards:** ISO75400, PRINCE2, PCI Compliance
- **Regulatory Frameworks:** EPA Regulations, Local Ordinances, Engineering Codes
- **Presentation Tools:** PowerPoint, Prezi, Adobe Illustrator

### EXPERIENCE

#### Civil Engineering Intern

University Project 📅 June 2025 - Present 📍 Chicago, IL

Contributed as a Civil Engineering intern, focusing on the design and analysis of stormwater systems, street infrastructures, and construction planning. Developed adherence to engineering best practices and compliance through effective documentation aside from administrative assistance.

- Conducted design and analysis for stormwater systems and roadways, enhancing practical application of civil engineering principles.
- Developed construction plans and specifications using CAD software while adhering to project requirements and industry best practices.
- Collaborated with multidisciplinary teams on comprehensive design calculations and cost estimates to streamline projects and improve outcomes.
- Assisted in preparation of thorough project documentation, heightening accuracy and organization of essential project files.
- Engaged in peer reviews to ensure design integrity and full compliance with relevant engineering standards for quality assurance.
- Participated in scheduling and various administrative tasks, assisting project managers with maintaining timely project execution.

#### Engineering Research Assistant

University Research Lab 📅 September 2024 - May 2025 📍 Chicago, IL

Supported advanced research initiatives focused on sustainable drainage solutions while collaborating directly with faculty and peers to promote innovation and refined methodologies.

### STRENGTHS

🧠 **Analytical Skills**  
Consistently analyze complex engineering challenges, resulting in creative solutions for diverse projects.

👥 **Collaboration**  
Promote teamwork by engaging with multiple disciplines, optimizing project flow for efficiency and enhanced outcomes.

🔧 **Technical Proficiency**  
Highly skilled in utilizing CAD tools like MicroStation and Geopak, improving project delivery speed and accuracy.

💬 **Effective Communication**  
Cultivate strong communication skills which facilitate understanding across diverse audiences and applications.

💡 **Innovative Mindset**  
Recognized for creative strategies and novel approaches that strategically address community engineering needs.

### SKILLS

Civil Engineering Principles

CAD Software (MicroStation)

Design Calculations

Project Management Geopak

Analytical Tools Quantity Take-offs

Cost Estimation

Research Methodologies

Environmental Considerations

Document Control

Communication Skills Scheduling

Peer Review Processes

Stormwater Management

## LANGUAGES

English Native

Spanish Intermediate

## MY CAREER



● Civil Engineering Intern at University Project (1.1 Years)

● Engineering Research Assistant at University Research Lab (8 Months)

● Lead Project Developer at Capstone Project (3 Months)

- Supported research initiatives addressing innovative drainage solutions, contributing significantly to project development and subsequent evaluations.
- Assisted in data analysis reporting that ensured clarity and precision, solidifying research findings through organized communication.
- Utilized simulation tools to test project conclusions, allowing for an accurate evaluation of designs based on empirical data.
- Cooperated with faculty and peers to enhance research methods and presentation formats for disseminating findings effectively.
- Generated comprehensive technical documentation necessary for refining research submissions and related presentations.
- Managed lab procedures, sustaining all required equipment and resources to support uninterrupted research activities.

### Lead Project Developer

Capstone Project 📅 January 2025 - April 2025 📍 Chicago, IL

Served as team lead for a capstone project dedicated to sustainable design, aligning project goals with local community needs and synthesizing environmental considerations effectively.

- Steered design efforts for a sustainable stormwater management system, focusing on extensive community involvement throughout the process.
- Conducted detailed feasibility studies while partnering with stakeholders to agree upon regulatory frameworks tailored toward community objectives.
- Crafted comprehensive plans, specifications, and rough cost estimates leading to informed decisions presented to faculty members and industry professionals.
- Implemented advanced CAD tools facilitating visualization for clear communication during crucial project discussions and evaluations.
- Orchestrated project meetings aimed at fostering transparency among team members whilst ensuring quality and efficacy.
- Acknowledged for innovative methodologies undertaken alongside thorough execution, enhancing not only the project outcome but professional relationships.

### LEADERSHIP & AWARDS

- Dean's List, University of Illinois at Chicago, 2024 - 2026

### CERTIFICATIONS

- Engineer-in-Training (EIT) 📅 2026

### PROFESSIONAL AFFILIATIONS

- Member, American Society of Civil Engineers, 2023 - Present
- Volunteer, Engineering Without Borders, 2023 - Present

### ADDITIONAL INFORMATION

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

### REFERENCES

AVAILABLE ON REQUEST