



# Walter Hamilton

## Structural Engineer

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### SUMMARY

Motivated recent graduate with a Bachelor's degree in Civil Engineering, specializing in structural design. Contributions include developing structural solutions for diverse buildings like commercial and residential projects, utilizing tools such as REVIT for precise designs and analysis. Collaborated effectively within project teams, demonstrating problem-solving abilities throughout design phases. Assisted senior engineers with calculations and reports, gaining confidence as a team player focused on successful project completion. Engaged intentionally in learning opportunities to enhance engineering skills and build meaningful relationships with peers and mentors in the civil engineering field.

### EDUCATION

#### Bachelor's Degree in Civil Engineering

University of Illinois 🎓 GPA: 3.5 📅 2024 📍 Champaign, IL

**Coursework:** Structural Analysis, Design Principles, Materials Science, Construction Management

### TECHNICAL SKILLS

- **Design Software:** REVIT, AutoCAD, SketchUp
- **Analysis Tools:** SAP2000, ETABS, RAM Structural System
- **Project Management Tools:** Asana, Trello, Microsoft Project
- **Documentation Standards:** AISC, ACI, ASCE
- **Sustainability Guidelines:** LEED, IGBC, BREEAM
- **Communication Platforms:** Zoom, Microsoft Teams, Slack
- **Research Methodologies:** Statistical Analysis, Experiments, Surveys
- **Compliance Regulations:** OSHA, NEC, IBC
- **Presentation Software:** PowerPoint, Google Slides, Prezi
- **Technical Reporting Standards:** IEEE Transaction, ASTM, CSI

### EXPERIENCE

#### Structural Engineering Intern

University Project 📅 September 2025 - June 2026 📍 Remote

Supported a team designing a multi-story residential building, focusing on load-bearing structures and ensuring code compliance. Fostered contributions throughout project's life cycle from conceptual development to final execution.

- Collaborated closely with project leads to develop comprehensive drawings using REVIT, improving speed and accuracy in documentation efforts.
- Conducted critical simulations evaluating structural performance under varying conditions, enhancing overall design integrity.
- Engaged in regular meetings, offering feedback on design strategies and ultimately contributing to innovative alterations based on peer input and discussions.
- Compiled necessary reports and presentations that communicated project intent clearly during stakeholder reviews.
- Actively participated in peer evaluations, fostering an environment of constructive criticism aimed at elevating design quality.
- Maintained updated knowledge of industry best practices which enhanced personal skill sets and team dynamics.

#### Research Assistant

University Research Lab 📅 January 2025 - May 2025 📍 Springfield, IL

### STRENGTHS

- 👥 **Team Collaboration**  
Worked seamlessly within diverse teams, building strong rapport that facilitated smoother project workflows and discussions.
- ⬆️ **Adaptability**  
Quickly adjusted strategies based on feedback or changing needs, showcasing flexibility when facing unexpected engineering challenges.
- 📊 **Analytical Skills**  
Employed rigorous data analysis in project assessments, leading to informed decisions for structural improvements and innovations.
- 💬 **Effective Communication**  
Presented complex ideas understandably to various stakeholders, translating technical details into compelling narratives.
- 📖 **Continuous Learning**  
Pursued ongoing professional training, taking initiative to expand knowledge on modern engineering tools and trends affecting industry.

### SKILLS

REVIT AutoCAD

Structural Analysis

Project Documentation

Building Codes Materials Science

Data Analysis Microsoft Office

Sustainable Practices

|                      |                 |
|----------------------|-----------------|
| Communication        | Problem Solving |
| Collaboration        | Field Reviews   |
| Design Calculations  |                 |
| Construction Support |                 |
| Technical Reporting  |                 |

LANGUAGES

|         |              |
|---------|--------------|
| English | Native       |
| Spanish | Intermediate |

MY CAREER



- Structural Engineering Intern at University Project (9 Months)
- Research Assistant at University Research Lab (4 Months)
- Lead Structural Designer at Capstone Project (3 Months)

- Contributed to research initiatives focusing on sustainable materials' effects on structural performance. Collaboratively developed frameworks for assessing new construction methods and interactions with sustainability-focused innovations.
- Participated in rigorous material testing experiments, evaluating durability and strength factors crucial for publication readiness.
  - Worked alongside faculty members and advanced students on interdisciplinary approaches linking theoretical findings to practical applications.
  - Presented key findings confidently at academic events, receiving acknowledgment for clarity and informative depth during discussions.
  - Assisted in drafting grant proposals which expanded funding horizons for future research activities.
  - Networked with industry leaders to align theoretical insights with real-world challenges being faced in modern construction.
  - Documented research progress meticulously for inclusion in local newsletters and journals catering to engineering advancements.

Lead Structural Designer

Capstone Project 📅 September 2024 - December 2024 📍 Remote

- Led the design of a community center showcasing innovative use of sustainable technologies while ensuring structural feasibility and safety standards.
- Orchestrated a student team in demanding project timelines, effectively distributing workload and responsibilities towards success.
  - Developed detailed structural models, presenting analytical outputs validated by experienced faculty for approval and enhancement recommendations.
  - Created extensive documentation detailing specifications, calculations essential for thorough understanding in review processes.
  - Fostered collaboration among architectural classmates to merge aesthetic values with structural dimensions, promoting cohesive designs.
  - Managed all aspects of project progress, leading meetings aimed at integrating feedback into timely revisions.
  - Recognized prematurely during final project evaluation for outstanding creativity paired with a systematic approach to engineering design considerations.

LEADERSHIP & AWARDS

- Received Best Project Presentation Award for capstone project in December 2024, acknowledged for innovation and depth of content.
- Awarded Outstanding Participant at the University Symposium, recognizing engagement in discussing sustainable building practices.

CERTIFICATIONS

- Fundamentals of Engineering 📅 2025
- AutoCAD Certification 📅 2025

PROFESSIONAL AFFILIATIONS

- Member of the American Society of Civil Engineers (ASCE), actively participating in college activities to promote engineering principles.
- Active participant in local volunteer architecture initiatives delivering assistance in constructing community-centered facilities.

ADDITIONAL INFORMATION

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

REFERENCES

AVAILABLE ON REQUEST