

Odin Cummings

Structural Engineering Professional Associate

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SUMMARY

Dedicated Structural Engineer with over 4 years of experience in structural analysis and design. Proficient in applying US building codes and standards, with a strong focus on quality control and project management. Demonstrated ability to collaborate effectively with multidisciplinary teams to deliver design concepts and detailed structural documentation. Committed to continuous learning and professional development within the structural engineering field. Developed strong communication skills for conveying complex ideas across diverse stakeholders while upholding rigorous standards of work.

EXPERIENCE

Structural Engineering Intern

University Project 📅 June 2024 - June 2026 📍 Seattle, WA

As an integral team member in structural engineering design, conducted extensive analyses and developed solutions for high-rise building projects in compliance with IBC and ASCE 7 standards, ensuring effective communication between design peers and stakeholders.

- Collaborated with a team to design and analyze structural components for a high-rise building, ensuring compliance with IBC and ASCE 7 standards.
- Conducted lateral analysis for wind and seismic loads by applying relevant building code provisions.
- Developed detailed design documents and models using Navisworks and Bluebeam, facilitating effective communication within the design team.
- Performed calculation checks on peer designs to uphold rigorous quality control standards.
- Engaged in regular meetings with project stakeholders to define scope changes and address design challenges.
- Initiated workflow enhancements that improved project delivery efficiency by streamlining design review processes.

Junior Structural Analyst

University Research Lab 📅 September 2023 - May 2024 📍 Seattle, WA

Provided support in determining structural integrity for various civil engineering studies, gaining valuable insights into sound engineering judgement through practical applications and collaborations in data-acquisition field walks.

- Assisted in structural integrity assessments for various civil engineering projects, employing sound engineering judgement and problem-solving skills.
- Participated in field walks to gather data on existing structures, documenting findings for analysis.
- Supported preparation of technical reports and presentations for academic conferences, enhancing communication skills.
- Engaged in peer mentoring, providing guidance to junior students in structural design principles and software applications.
- Conducted research on emerging technologies in structural engineering, contributing to team knowledge and innovation.
- Developed proficiency in structural engineering software tools, including SAP2000 and ETABS, through hands-on applications.

LEADERSHIP & AWARDS

- Dean's List, University of Washington, 2024-2026
- First Place, University Engineering Design Competition, 2025

EDUCATION

Bachelor's Degree in Civil Engineering

University of Washington 🎓 GPA: 3.7 📅 2026 📍 Seattle, WA

Coursework: Structural Mechanics, Building Materials, Fluid Dynamics, CAD Design

CERTIFICATIONS

- Professional Engineer (PE) License 📅 2026
- Fundamentals of Engineering (FE) 📅 2024

TECHNICAL SKILLS

- **Structural Engineering Software:** Navisworks, Bluebeam, SAP2000, ETABS
- **Building Codes:** IBC, ASCE 7, ACI, AISC
- **Analysis Techniques:** Finite Element Analysis, Lateral Load Analysis, Seismic Analysis
- **Programming/Scripting:** Python, MATLAB, R

- **Modeling Tools:** AutoCAD, Revit, SketchUp
- **Project Management Tools:** Trello, Asana, MS Project
- **Presentation Software:** Microsoft PowerPoint, Prezi, Google Slides
- **Technical Writing:** Technical Reports, Research Papers, Whitepapers
- **Collaboration Tools:** Google Workspace, Microsoft Teams, Slack
- **Data Analysis Tools:** Excel, Tableau, SPSS

SKILLS

- Structural Analysis
- Design Documentation
- Code Compliance
- Project Management
- Navisworks
- Bluebeam
- SAP2000
- ETABS
- Communications
- Problem Solving
- Software Development
- Engineering Design
- Lateral Analysis
- Seismic Design
- Technical Reporting

PROFESSIONAL AFFILIATIONS

- Member, Civil Engineering Society, University of Washington
- Volunteer, Habitat for Humanity, 2024-2025

LANGUAGES

- English (Native)
- Spanish (Proficient)

ADDITIONAL INFORMATION

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

REFERENCES

AVAILABLE ON REQUEST