

Walker Oneill

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SUMMARY

Dynamic structural engineer with over a decade of experience in the industry. Specializes in timber engineering and seismic design, leading teams to create efficient and innovative project solutions. Skilled at collaborating with architects to achieve practical designs that align with client needs. Proficient in using both American and Canadian building codes. Extensive hands-on expertise with Finite Element software and 3D modeling tools such as Rhino and ETABS. Strong commitment to mentoring junior engineers fostered an environment of continuous learning and technical development.

EXPERIENCE

Senior Structural Engineer

January 2021 - Present

Innovative Structures Inc.

Seattle, WA

Lead structural engineer for large-scale timber projects, combining management responsibilities with technical execution. Drives quality control and fosters collaboration between multiple teams to ensure projects are well-coordinated and delivered on schedule.

- Pioneered innovative design solutions for mass timber structures, ensuring adherence to applicable codes while pushing creative boundaries.
- Managed diverse teams, including engineers and drafters, effectively synchronizing workflows to meet stringent project deadlines.
- Facilitated client meetings and discussions, providing expertise on complex structural issues that foster strong client relations.
- Conducted detailed structural analysis and finite element modeling at all project phases, optimizing efficiency during construction.
- Mentored junior engineers, leading to improved technical skills across the engineering team by nurturing knowledge sharing.
- Presented insights at industry conferences, enhancing company visibility while sharing advancements in timber engineering.

Structural Engineer

March 2016 - December 2020

Timber Engineering Solutions

Vancouver, BC

Structured comprehensive engineering solutions for various timber projects, actively engaging with stakeholders throughout project lifecycles. Improved processes that underline project success and innovation.

- Delivered high-quality structural designs through collaborations with architects, enhancing functionality while optimizing costs.
- Employed advanced software (e.g., SAP2000, ETABS) for analyzing structural integrity, aligning outcomes with safety standards.
- Regularly conducted site assessments during construction, resolving challenges swiftly and ensuring compliance with initial designs.
- Prepared accurate cost estimates and material take-offs, contributing meaningfully to budgeting efforts for successful project delivery.
- Shared industry knowledge through presentations at conferences, establishing reputation as an expert in timber engineering innovations.

Junior Structural Engineer

June 2013 - February 2016

Green Building Associates

San Francisco, CA

Supported senior engineers in designing sustainable timber structures that adhere to environmental standards while integrating cost-effective methodologies into projects.

- Contributed to the design of eco-friendly structures by applying appropriate material selections, ensuring compliance with sustainability goals.
- Executed field inspections, bolstering quality assurance and maintaining alignment with approved specifications.
- Developed skills in producing accurate drawings and documentation, thereby reducing rework and enhancing project precision.
- Participated in client engagement sessions, further developing communication abilities while addressing technical inquiries effectively.
- Engaged in ongoing training to enhance proficiency in relevant engineering software, resulting in higher performance levels.

LEADERSHIP & AWARDS

- Outstanding Young Engineer Award, Oregon Engineering Society, 2022
- Best Paper Award at Northwest Timber Conference, 2021

EDUCATION

Master's Degree in Civil Engineering

2021

University of Oregon GPA: 3.7

Eugene, OR

Coursework: Design Principles, Structural Analysis, Timber Engineering, Seismic Design

CERTIFICATIONS

- Professional Engineer (PE) 📅 2021
- Seismic Design Certification 📅 2018

TECHNICAL SKILLS

- **Software Tools:** AutoCAD, ETABS, SAP2000
- **Modeling Software:** Rhino, Grasshopper
- **Analysis Software:** Finite Element Analysis, R-FEM
- **Project Management Platforms:** Trello, Asana
- **Communication Tools:** Zoom, Microsoft Teams, Slack
- **Reporting Tools:** Excel, Word, PowerPoint
- **Quality Assurance Methods:** Code Review, Peer Feedback
- **Budgeting Software:** QuickBooks, Microsoft Project
- **Building Codes Knowledge:** Canadian Codes, US Codes, European Codes
- **Sustainability Practices:** LEED Standards, Green Practices

SKILLS

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|---------------------------|----------------------|-------------------|-------------------------|
| • Structural Engineering | • Project Management | • SAP2000 | • Engineering Reporting |
| • Timber Engineering | • AutoCAD | • Team Leadership | • Calculations |
| • Seismic Design | • Rhino | • Field Review | • Client Relations |
| • Finite Element Analysis | • ETABS | • Cost Estimation | • Sustainable Design |

PROFESSIONAL AFFILIATIONS

- Member, American Society of Civil Engineers (ASCE)
- Volunteer Mentor, Engineering Explorers Program

LANGUAGES

- English (Native)
- Spanish (Intermediate)

ADDITIONAL INFORMATION

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

REFERENCES

AVAILABLE ON REQUEST