

Cohen Henderson

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SUMMARY

Talented Structural Engineer specializing in infrastructure projects with over six years of experience. Proven success in managing bridge and building designs from conception through completion. Demonstrated ability to lead teams while ensuring safety standards and client satisfaction. An adept communicator, capable of translating technical details for diverse audiences and stakeholders. Constantly aims for enhanced performance and sustainability in engineering solutions. Passion for collaboration drives engagement and innovation in project development, employing the latest methods to achieve common goals.

EXPERIENCE

Senior Structural Engineer

January 2022 - Present

Bridge Solutions Group

Syracuse, NY

Oversaw large-scale bridge projects, focusing on design integrity and regulatory compliance. Guided multi-discipline teams aiming for efficiency and innovation across all deliverables.

- Directed structural engineering efforts on complex bridges, enhancing safety and functionality while adhering to strict codes.
- Communicated design concepts effectively with architects and engineers, leading to improved collaborative outcomes.
- Mentored junior engineers through challenging projects, cultivating skill development and individual growth within the team.
- Analyzed site conditions and performed rigorous evaluations to ensure structural soundness across various projects.
- Generated comprehensive reports detailing project progress, materials used, and safety measures implemented.
- Engaged with clients regularly, addressing concerns and adapting plans based on project needs.

Project Engineer

June 2019 - December 2021

Structural Innovations Inc.

Buffalo, NY

Focused on structural analysis and design for load-bearing structures, leveraging advanced technology. Collaborated closely with cross-functional teams to meet project timelines and budget constraints.

- Designed innovative building solutions while incorporating sustainable practices into engineering proposals.
- Effectively developed detailed calculations and specifications, ensuring compliance with local codes and regulations.
- Established quality control processes that reinforced accuracy throughout project stages reducing potential errors.
- Collaborated closely with contractors during construction phases, facilitating swift problem resolution and minimized delays.
- Coordinated logistical elements for project execution, improving overall delivery effectiveness and operational flow.
- Researched materials to enhance durability and sustainability within designed structures, positively impacting project objectives.

Junior Structural Engineer

August 2016 - May 2019

City Engineering Services

Rochester, NY

Assisted senior engineers in designing a wide range of infrastructure projects. Engaged in field surveying and gained hands-on experience with structural assessments.

- Supported ongoing projects through data collection and field inspections, contributing to successful planning stages.
- Prepared technical drawings and documentation, ensuring clarity and precision for internal and external stakeholders.
- Developed foundational knowledge of state and local construction laws, laying groundwork for practical application.
- Enhanced project timelines by collaborating efficiently within an agile team environment focused on delivering results.
- Participated in continuous learning opportunities, gaining insights on modern technologies and trends shaping structural engineering.

LEADERSHIP & AWARDS

- Outstanding Project Management Award for providing exemplary guidance on major bridge reconstruction efforts.
- Excellence in Engineering Award recognizing exceptional contributions to community infrastructure developments.

EDUCATION

Bachelor's Degree in Civil Engineering

2016

University of Albany GPA: 3.5

Albany, NY

Coursework: Structural Analysis, Materials Testing, Construction Management, Safety Regulations

CERTIFICATIONS

- Licensed Professional Engineer (P.E.) 📅 2021
- Certified Structural Engineer (C.S.E.) 📅 2020

TECHNICAL SKILLS

- **Structural Software:** SAP2000, ETABS, RISA, STAAD Pro, AutoCAD
- **Communication Tools:** Microsoft Teams, Zoom, Slack
- **Environmental Standards:** ASHRAE, LEED, ISO 14001
- **Project Management Tools:** Microsoft Project, Trello, Asana
- **Construction Codes:** AASHTO, IBC, NYC Building Code
- **Document Management Systems:** SharePoint, Google Workspace
- **Design Methodologies:** BIM, 3D Modeling, Finite Element Analysis
- **Quality Control Techniques:** Peer Reviews, Field Testing, Compliance Checks
- **Regulatory Frameworks:** OSHA, EPA, NYSERDA Guidelines
- **Network Development:** Professional Networking, Community Engagement, Industry Conferences

SKILLS

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|-----------------------|------------------------|---------------------------|-------------------------|
| • Structural Analysis | • MicroStation | • Materials Testing | • Client Engagement |
| • Project Management | • Technical Writing | • Safety Protocols | • Site Inspections |
| • AutoCAD | • Compliance Standards | • Engineering Design | • Data Analysis |
| • STAAD Pro | • Team Leadership | • Construction Management | • Sustainable Practices |

PROFESSIONAL AFFILIATIONS

- Member of the American Society of Civil Engineers (ASCE), actively participating in local events and initiatives.
- Active contributor to the Engineering Outreach Program promoting STEM careers among young students.

LANGUAGES

- English (Native)
- Spanish (Intermediate)

ADDITIONAL INFORMATION

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

REFERENCES

AVAILABLE ON REQUEST