



# Cohen Henderson

## Senior Professional, Structural Engineering

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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.

### STRENGTHS

- 👤 **Leadership Skills**  
Fosters a supportive and engaging culture, motivating team members to excel in design and analysis projects.
- 💬 **Communication Abilities**  
Translates complex engineering ideas into understandable terms for clients and non-technical stakeholders.
- 📋 **Project Management**  
Oversees multiple project lifecycles simultaneously, achieving positive outcomes without compromising quality.
- 💡 **Analytical Thinking**  
Conducts thorough analyses of structural systems, identifying improvements to maximize safety and reduce costs.
- ⚙️ **Technical Expertise**  
Utilizes contemporary software tools in project design and assessment, enhancing accuracy and efficiency.

### SKILLS

Structural Analysis

Project Management AutoCAD

STAAD Pro MicroStation

Technical Writing

Compliance Standards

Team Leadership

Materials Testing Safety Protocols

Engineering Design

### EXPERIENCE

#### Senior Structural Engineer

Bridge Solutions Group 📅 January 2022 - Present 📍 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

Structural Innovations Inc. 📅 June 2019 - December 2021 📍 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

City Engineering Services 📅 August 2016 - May 2019 📍 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.

Construction Management

Client Engagement

Site Inspections Data Analysis

Sustainable Practices

## LANGUAGES

English Native

Spanish Intermediate

## MY CAREER



● Senior Structural Engineer at Bridge Solutions Group (4.5 Years)

● Project Engineer at Structural Innovations Inc. (2.5 Years)

● Junior Structural Engineer at City Engineering Services (2.8 Years)

- 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

University of Albany 🎓 GPA: 3.5 📅 2016 📍 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

## 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.

## ADDITIONAL INFORMATION

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

## REFERENCES

AVAILABLE ON REQUEST