








# Nikolai Bradley

## Senior Structural Engineer

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### STRENGTHS

-  **Leadership and Mentoring**  
Cultivated talent within engineering teams, empowering peers at various levels and boosting team cohesion.
-  **Code Compliance Expertise**  
Utilized extensive knowledge of structural regulations to drive code adherence across numerous projects successfully.
-  **Communication Skills**  
Established robust channels between diverse teams, fostering harmonious relationships and seamless workflows.
-  **Creative Problem Solving**  
Employed inventive thinking in tackling intricate design challenges, often inspiring solution-led discussions.
-  **Project Coordination**  
Navigated multi-disciplinary landscapes to align project goals, achieving elevated efficiency and reduced miscommunication.

### SKILLS

Structural Analysis

Design Software Proficiency

BIM Coordination

Project Management

Team Leadership

Code Compliance

Quality Assurance Mentoring

Technical Documentation

### SUMMARY

Results-driven Senior Structural Engineer with over 7 years' expertise delivering innovative structural solutions for complex building projects. Proven leadership in guiding technical teams, mentoring junior engineers, and ensuring compliance with U.S. structural codes and standards. Comprehensive experience managing multidisciplinary coordination across various project stages while providing focused construction-phase support through targeted field visits and adept handling of RFIs. Passion for innovative problem-solving leads to practical, constructible solutions meeting quality benchmarks. Committed to fostering a team-first environment where collaboration, communication, and continuous improvement thrive, enhancing overall project outcomes and professional growth.

### EXPERIENCE

#### Senior Structural Engineer

Innovative Engineering Solutions 📅 May 2019 - Present 📍 Chicago, IL

Senior Structural Engineer overseeing design efforts for large institutional projects. Responsible for maintaining compliance, coordinating multidisciplinary teams, and ensuring high-quality design deliverables throughout the lifecycle.

- Led comprehensive design packages tailored for varying materials including steel and concrete, meeting dynamic project demands.
- Coordinated crucial communications between architects, contractors, and engineers, resulting in streamlined project delivery.
- Conducted thorough reviews of design calculations and documentation to uphold premium quality and adherence to structural codes.
- Provided insightful support during field visits while addressing technical queries promptly to facilitate ongoing construction activities.
- Mentored several junior engineers, enriching their skill sets through direct involvement in design discussions and review processes.
- Initiated continuous improvement strategies that amplified design quality and stakeholder satisfaction in client engagements.

#### Structural Engineer

Next Level Engineering 📅 June 2015 - April 2019 📍 Chicago, IL

Focused on structural analysis and design for public sector infrastructure projects, forging productive collaborations with architectural teams for unified execution.

- Executed innovative structural designs aligned with safety standards and client expectations, earning recognition for excellence in project delivery.
- Developed essential technical documents including clear design narratives that ensured clarity and accuracy in communications.
- Facilitated site observations, identifying potential issues early to mitigate risks and enhance overall construction quality.
- Actively engaged in peer reviews and quality assessments, contributing to ongoing dialogue about industry best practices.
- Championed professional development by participating in workshops and pursuing licensure, modeling a commitment to lifelong learning within the team.

#### Junior Structural Engineer

Structural Design Group 📅 July 2014 - May 2015 📍 Chicago, IL

Assisted senior staff in analyzing and designing structural systems, gaining hands-on experience that contributed to foundational engineering skills.

- Supported technical documentation preparation, applying academic training to ensure compliance with regulations and codes.

Field Support Risk Identification

Peer Reviews

Construction Guidance

Stakeholder Communication

Regulatory Standards

## LANGUAGES

English Native

Spanish Intermediate

## MY CAREER



● Senior Structural Engineer at Innovative Engineering Solutions (7.2 Years)

● Structural Engineer at Next Level Engineering (3.8 Years)

● Junior Structural Engineer at Structural Design Group (10 Months)

- Collaborated effectively within collaborative teams, promoting successful communication and project advancements.
- Contributed significance to field investigations, assessing construction integrity while liaising with all stakeholders involved.
- Regularly participated in knowledge-sharing sessions, strengthening team competencies on critical structural design issues.
- Tested emerging methodologies and tools in real-world applications, embracing opportunities for innovation from the outset in one's career.

## LEADERSHIP & AWARDS

- Awarded Best New Degree Program by Engineering Association, 2022
- Recipient of Professional Engineer License, Illinois, 2015

## EDUCATION

### Bachelor's Degree in Civil Engineering

University of Illinois 🎓 GPA: 3.5 📅 2014 📍 Champaign, IL

**Coursework:** *Structural Analysis, Materials Science, Construction Management, Environmental Engineering*

## CERTIFICATIONS

- Professional Engineer (PE) License 📅 2015
- Certificate in Structural Analysis 📅 2020

## TECHNICAL SKILLS

- **Structural Analysis Tools:** SAP2000, RISA, ETABS
- **BIM Software:** Revit, Navisworks, TEKLA
- **Project Management Software:** MS Project, Waterfall, Agile
- **Document Control Systems:** Aconex, SharePoint, Bluebeam
- **Construction Phase Tools:** Surveying Equipment, Inspection Software, Safety Equipment
- **Collaboration Platforms:** Slack, Microsoft Teams, Zoom
- **Quality Review Programs:** Six Sigma, ISO Standards, ASCE Guidelines
- **Data Analysis Tools:** Excel, AutoCAD, MATLAB
- **Software Development Standards:** Agile Methodologies, DevOps, SCRUM
- **Design Standards:** AISC, ACI, NDS

## PROFESSIONAL AFFILIATIONS

- Member, American Society of Civil Engineers (ASCE)
- Participant, Local Engineering Community Outreach Programs

## ADDITIONAL INFORMATION

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

## REFERENCES

AVAILABLE ON REQUEST