

Nikolai Bradley

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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

May 2019 - Present

Innovative Engineering Solutions

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

June 2015 - April 2019

Next Level Engineering

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

July 2014 - May 2015

Structural Design Group

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.
- 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

2014

University of Illinois GPA: 3.5

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

SKILLS

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|-------------------------------|---------------------|---------------------------|-----------------------------|
| • Structural Analysis | • Team Leadership | • Technical Documentation | • Construction Guidance |
| • Design Software Proficiency | • Code Compliance | • Field Support | • Stakeholder Communication |
| • BIM Coordination | • Quality Assurance | • Risk Identification | • Regulatory Standards |
| • Project Management | • Mentoring | • Peer Reviews | |

PROFESSIONAL AFFILIATIONS

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

LANGUAGES

- English (Native)
- Spanish (Intermediate)

ADDITIONAL INFORMATION

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

REFERENCES

AVAILABLE ON REQUEST