

Eliza Cannon

Structural Engineer

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SUMMARY

Driven Structural Engineer with 5 years of hands-on experience managing large-scale construction projects. Expertise includes designing infrastructure and ensuring compliance with stringent safety standards and cost-effectiveness. Strong skills in AutoCAD and project management software facilitate successful project execution. Reliable collaborator who engages with cross-functional teams, fostering innovation and overcoming project obstacles. Proven ability to assess risks, analyze data, and deliver actionable insights that support company objectives. Eager to contribute expertise to innovative projects while upholding the company's core values of Integrity, Commitment, Innovation, and Customer Trust.

EXPERIENCE

Structural Engineer

Innovative Design Solutions 📅 January 2021 - Present 📍 Phoenix, AZ

Oversee and optimize large-scale construction projects at Innovative Design Solutions. Responsibilities include design, planning, and coordination of multi-million dollar building infrastructures. Leading teams ensures adherence to budgets, schedules, and safety regulations vital for operational effectiveness.

- Developed architectural plans for multiple large projects, maintaining budgetary constraints and timelines.
- Supervised on-site operations by enforcing compliance with engineering designs and rigorous safety protocols.
- Collaborated with officials and contractors to secure necessary permits, mitigating regulatory holdups.
- Instituted comprehensive risk assessment practices to promptly address potential hazards during execution.
- Provided detailed updates and cost-saving proposals to executive stakeholders, enhancing decision-making processes.
- Facilitated clear lines of communication among interdisciplinary teams, ensuring cohesive project strategy.

Junior Structural Engineer

Urban Planning Associates 📅 June 2018 - December 2020 📍 Chicago, IL

Supported design and drafting of sustainable infrastructure solutions while gaining project management exposure in a fast-paced environment. Key contributions involved working closely with senior engineers to overcome challenges inherent in urban development projects.

- Assisted in creating robust infrastructure plans that prioritized stormwater management and flood control initiatives.
- Monitored schedules and resource allocations, ensuring efficient use of team efforts aligned with project timelines.
- Performed site evaluations to confirm compliance with building codes and quality benchmarks.
- Worked alongside seasoned engineers to refine strategies and innovate design aspects throughout project lifecycle.
- Engaged in ongoing professional development, broadening expertise necessary for future complex projects.
- Participated in collaborative discussions that led to fresh process improvements and streamlining workflows.

Engineering Intern

Future Tech Engineering 📅 June 2017 - August 2017 📍 Chicago, IL

Gained foundational engineering insights through intern role focused on assisting in design reviews for commercial building projects. Experience cultivated understanding of technical documentation and compliance requirements essential for structural integrity.

- Contributed input in design review sessions, enhancing technical plans for large commercial projects.
- Gathered site data for feasibility studies, supporting real-time analyses crucial for effective decision-making.
- Aided in preparing project documentation including compliance checklists to align with industry regulations.
- Gained proficiency with AutoCAD and other design technologies, translating theoretical knowledge into practical application.
- Supported preparation of presentations and reports that effectively addressed stakeholder concerns and expectations.

LEADERSHIP & AWARDS

- Excellence in Engineering Award - 2022
- Project Management Certification Achievement - 2021

EDUCATION

Bachelor's Degree in Civil Engineering

University of Illinois 🎓 GPA: 3.7 📅 2018 📍 Champaign, IL

Coursework: Structural Design, Material Science, Geotechnical Engineering, Environmental Systems

CERTIFICATIONS

- Licensed Professional Engineer (PE) 📅 2020

- Project Management Professional (PMP) 📅 2021

TECHNICAL SKILLS

- **Engineering Software:** AutoCAD, Revit, Civil 3D
- **Project Management Tools:** Trello, Asana, Microsoft Project
- **Structural Analysis Tools:** SAP2000, ETABS, STAAD.Pro
- **Reporting Platforms:** Microsoft Office Suite, Tableau, Power BI
- **Compliance Standards:** OSHA Regulations, AISC Standards, ACI Code
- **Risk Analysis Software:** Primavera P6, RiskWatch, Monte Carlo Simulations
- **Collaboration Tools:** Slack, Zoom, SharePoint
- **Quality Control Methods:** Six Sigma, Lean Methodologies, ISO Standards
- **Material Testing Equipment:** Universal Testing Machine, Concrete Compression Tester, Soil Testing Kits
- **Contract Management Systems:** Viewpoint Vista, Procore, Buildertrend

SKILLS

- AutoCAD
- Project Management Software
- Technical Reporting
- Construction Management
- Structural Analysis
- Risk Assessment
- Team Collaboration
- Cost Estimation
- Quality Assurance
- Building Codes Compliance
- Design Processes
- Civil Engineering Principles
- Site Inspection Techniques
- Safety Protocols
- Infrastructure Planning
- Government Regulations

PROFESSIONAL AFFILIATIONS

- American Society of Civil Engineers (ASCE) Member
- National Society of Professional Engineers (NSPE) Member

LANGUAGES

- English (Native)
- Spanish (Intermediate)

ADDITIONAL INFORMATION

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

REFERENCES

AVAILABLE ON REQUEST