

Brayden Manning

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SUMMARY

Dedicated Civil Engineering student eager to contribute in a Structural Engineer role. Hands-on experience includes designing pedestrian bridges and conducting field inspections. Collaborating within teams, showcasing analytical skills to enhance project outcomes. Skilled in CAD drafting, quantity take-offs, and communication with stakeholders through effective presentations. Committed to maintaining high academic standards while constantly exploring new engineering skills and software tools. Familiarity with regulations ensures project compliance and structural integrity. Strong relationship-building abilities foster teamwork and drive successful results in diverse engineering initiatives.

EDUCATION

Bachelor of Science in Civil Engineering

University of Colorado Boulder GPA: 3.5

2027

Boulder, CO

Coursework: Structural Analysis, CAD Design, Materials Science, Hydraulics

TECHNICAL SKILLS

- CAD Software:** AutoCAD, Revit, MicroStation
- Engineering Tools:** Civil 3D, SketchUp, Mathcad
- Project Management Tools:** Microsoft Project, Trello, Asana
- Office Software:** Microsoft Word, Excel, PowerPoint
- Analysis Techniques:** Finite Element Analysis, Load Rating Calculations, Structural Modeling
- Reporting Standards:** ASCE Guidelines, AISC Specifications, Local Legislation
- Inspection Practices:** Field Surveys, Site Inspections, Quality Control Measures
- Communication Platforms:** Email, Presentation Software, Document Management Tools
- Sustainability Practices:** Eco-friendly Materials, Lifecycle Assessment, Renewable Engineering Methods
- Professional Development:** Workshops, Seminars, Certifications

SKILLS

- AutoCAD
- Revit
- Civil 3D
- Microsoft Office Suite
- Project Management
- Structural Analysis
- Team Collaboration
- Presentation Skills
- Data Analysis
- Field Inspection
- Spreadsheet Development
- Report Writing
- Material Selection
- Load Ratings
- Technology Adoption
- Regulatory Compliance

EXPERIENCE

Structural Analysis Team Member

January 2026 - Present

University Project

Denver, CO

Contributed as a team member on a project focusing on the design and analysis of a pedestrian bridge. Activities included load calculations, material selection, and producing comprehensive CAD drawings to meet regulatory standards.

- Collaborated on designing a pedestrian bridge, ensuring accurate load calculations impacted end structure quality.
- Created detailed CAD drawings using AutoCAD to maintain adherence to strict specifications.
- Conducted inspections to assess existing structures, assisting in data gathering for project evaluations.
- Developed efficient spreadsheets for quantification activities, streamlining resources for project phases.
- Prepared presentations about project progress, sharpening communication skills with diverse stakeholders.
- Explored local codes during research, guaranteeing designs aligned with regulatory requirements.

Research Assistant

September 2025 - December 2025

Academic Research

Denver, CO

Assisted a faculty-led project analyzing sustainable materials for bridge construction, providing valuable insights through literature reviews and experiment support.

- Supported a research project focused on uplifting sustainable practices in bridge engineering.
- Contributed to writing research papers, developing technical communication proficiencies.
- Participated actively in discussions around experimental methodology development enhancing collaborative competencies.
- Engaged in workshops to gain proficiency in advanced software tools pivotal for structural engineering tasks.
- Maintained thorough documentation of research findings, supporting overall clarity and precision.

- Strengthened connections with external partners encouraging cross-disciplinary dialogue and resource sharing.

Team Lead

March 2026

Hackathon Project

Denver, CO

Led a dynamic team during a 48-hour hackathon to innovate eco-friendly bridge designs, effectively utilizing teamwork and project management strategies.

- Directed planning and execution of an award-winning bridge design challenge emphasizing environmental sustainability.
- Coordinated team efforts ensuring adherence to deadlines while promoting creative solution exploration.
- Presented final prototype drawing praise for integrating efficiency into structural concepts positively.
- Employed innovative design software to visualize ideas clearly and attractively for stakeholders.
- Recognized for creativity in pursuing eco-conscious building methods enhancing project's outreach impact.
- Cultivated an environment that encouraged collaboration, fostering both productivity and individual contribution.

LEADERSHIP & AWARDS

- Dean's List, Fall 2025
- First Place, University Engineering Competition, 2026

CERTIFICATIONS

- AutoCAD Certification 📅 2026
- OSHA 10-Hour Safety Training 📅 2026

PROFESSIONAL AFFILIATIONS

- Member, Civil Engineering Society, 2025 – Present
- Volunteer, Local Habitat for Humanity, 2025 – Present

LANGUAGES

- English (Native)
- Spanish (Intermediate)

ADDITIONAL INFORMATION

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

REFERENCES

AVAILABLE ON REQUEST