

# Atlas Mccoy

## Entry Level Rail Structures Engineer

☎ (402) 555-0123 ✉ atlas.mccoy@email.com 🌐 linkedin.com/in/atlas MCCoy 📍 1234 Engineering Way, Omaha, NE 68102

### SUMMARY

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Recent graduate with a Bachelor's degree in Civil Engineering, specializing in structural engineering. Proven collaboration in team settings, delivering design solutions with high quality. Experienced in modeling software and detailed research to support engineering projects. Strong communicator and problem-solver eager to tackle engineering challenges in the railroad sector by utilizing both existing knowledge and fresh insights gained during academia.

### EDUCATION

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#### Bachelor of Science in Civil Engineering

University of Nebraska 🎓 GPA: 3.7 📅 2026 📍 Omaha, NE

*Coursework: Structural Design, Fluid Mechanics, Soil Mechanics, Transportation Engineering*

### TECHNICAL SKILLS

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- **Design Software:** MicroStation, Risa 3D, AutoCAD
- **Project Management Tools:** Trello, Asana, JIRA
- **Modeling Applications:** MATLAB, Simulink, ETABS
- **Technical Documentation Tools:** LaTeX, Technical Writer, Markdown
- **Presentation Software:** Microsoft PowerPoint, Google Slides, Prezi
- **Analysis Tools:** MATLAB, Mathematica, Python
- **Research Methodologies:** Soft Systems Methodology, Statistical Analysis, Case Study Research
- **Communication Platforms:** Slack, Microsoft Teams, Email
- **Collaboration Tools:** Google Workspace, Dropbox, SharePoint
- **Engineering Standards:** ASCE, AISC, Eurocode

### SKILLS

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- MicroStation
- Bluebeam Revu
- Project Management
- Problem Solving
- Risa 3D
- Technical Writing
- Team Collaboration

### EXPERIENCE

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#### Assistant Engineer

University Project 📅 August 2025 - May 2026 📍 Omaha, NE

Provided assistance on design elements for a capstone project focused on rail infrastructure, employing standard engineering techniques while collaborating effectively with peers.

- Produced entry-level project plans, ensuring adherence to established guidelines and specification standards critical for project success.
- Developed proficiency in MicroStation and Risa 3D analysis, gaining hands-on experience in modeling structural components essential for railway safety.
- Assisted faculty with technical calculations, contributing to maintain quality management standards while projecting realistic project timelines.
- Conducted thorough research for technical reports, equipping the team with data-driven insights vital for informed decision-making in project planning.
- Offered mentoring to junior students in engineering principles, creating a positive learning atmosphere that encouraged innovation and collaboration.
- Participated in meetings with senior staff, gaining exposure to industry practices and frameworks that enhanced practical understanding of civil engineering.

#### Research Assistant

Academic Research 📅 January 2025 - August 2025 📍 Omaha, NE

Contributed to ongoing studies related to the structural integrity of rail systems, working closely with professors to enhance academic research capabilities.

- Prepared research papers and documentation, enhancing technical writing skills and presenting findings at academic conferences.
- Partnered with professors on data analysis, applying advanced mathematical techniques to steer complex engineering discussions.
- Engaged in community-related research aiming to boost safety and reliability in infrastructure, demonstrating social responsibility through engineering.

- Supported the development of presentations, polishing public speaking and communication abilities while sharing valuable insights with fellow researchers.
- Facilitated peer review sessions, reinforcing collaborative feedback as part of the academic growth process concerned with rigorous evaluations.
- Explored innovative methodologies through extensive literature review, contributing significantly to the body of knowledge within civil engineering disciplines.

## Team Member

Hackathon Project 📅 March 2025 📍 Omaha, NE

Worked collaboratively on a hackathon project aimed at innovating rail safety monitoring systems, showcasing problem-solving and teamwork in a competitive environment.

- Developed a prototype with Bluebeam Revu, bringing visual assessments of structures to life in real-time during project discussions.
- Inventively addressed key challenges identified in brainstorming sessions, pitching unique engineering solutions that garnered interest from industry judges.
- Presented project findings confidently to a panel of experienced professionals, earning praise for creativity and functional design.
- Demonstrated time management skills by balancing innovation with deadlines, successfully meeting goals under pressure with teamwork support.
- Collected constructive feedback from experts at review sessions, implementing suggestions to refine project functionalities post-presentation.
- Contributed positively to teamwork dynamics, actively participating in creative dialogues that aligned individual strengths to achieve overall objectives.

## LEADERSHIP & AWARDS

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- Dean's List - Fall 2024, Spring 2025
- First Place, Engineering Hackathon 2025

## CERTIFICATIONS

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- Engineer Intern certificate (EI) 📅 2026
- Bluebeam Certified Professional 📅 2025

## PROFESSIONAL AFFILIATIONS

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- Member, Civil Engineering Society
- Volunteer, Habitat for Humanity

## LANGUAGES

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- English (Native) • Spanish (Proficient)

## ADDITIONAL INFORMATION

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

## REFERENCES

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AVAILABLE ON REQUEST