

# Dawson Barnes

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## SUMMARY

Current Civil Engineering student enthusiastic about diving into the construction field. Gained practical experience in project management through academic projects, where collaboration and attention to detail thrived. Supported team-driven initiatives while developing essential skills needed for success in real-world environments. Passionate about ensuring quality control in construction processes. Eager to contribute to future projects while learning from experienced professionals, gaining exposure to industry practices. Ready to leverage educational background to add value while embodying respect, honesty, and integrity throughout assignments.

## EDUCATION

**Bachelor's Degree in Civil Engineering**  
University of Colorado    GPA: 3.5  
*Coursework: Structural Engineering, Construction Management, Environmental Sustainability, Project Planning*

2027  
Boulder, CO

## TECHNICAL SKILLS

- Construction Software:** AutoCAD, Revit, Bluebeam
- Project Management Tools:** Microsoft Project, Trello, Asana
- Data Analytics Tools:** MATLAB, Excel, R
- Inspection Techniques:** Visual Inspections, Compliance Checks, Quality Audits
- Communication Platforms:** Slack, Microsoft Teams, Zoom
- Sustainability Practices:** LEED Certification, Green Building Standards, Waste Reduction Techniques
- User Testing Methods:** A/B Testing, Surveys, Focus Groups
- Technical Writing Skills:** Report Preparation, Documentation, Presentation Development
- Budgeting Tools:** Quickbooks, Excel, Google Sheets
- Regulatory Knowledge:** Building Codes, Safety Regulations, Compliance Standards

## SKILLS

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|----------------------|-----------------------|--------------------|-------------------------|
| • AutoCAD            | • Construction Safety | • Time Management  | • Technical Writing     |
| • Revit              | • Team Collaboration  | • Data Analysis    | • Inspection Procedures |
| • MATLAB             | • Communication       | • Quality Control  | • Blueprint Reading     |
| • Project Management | • Problem-Solving     | • Customer Service | • Estimating Costs      |

## EXPERIENCE

**Construction Project Developer**  
University Project

January 2026 - Present  
Aurora, CO

Worked on a simulated construction project from conceptualization to completion as part of an academic initiative. Developed comprehensive project plans which addressed timelines and budget estimates, ensuring effective resource allocation. Collaborated with peers to achieve project goals while maintaining adherence to specifications. Conducted quality inspections, adjusting parameters based on faculty feedback. Engaged in presentations to communicate outcomes, refining both leadership and communication skills.

- Led team efforts to design a sustainable construction project focused on efficiency.
- Developed detailed project plans addressing timeline, budget, and resources.
- Conducted quality inspections for compliance, presenting findings to enhance results.
- Utilized AutoCAD and Revit for optimal drafting and visualization.
- Enhanced communication by presenting ongoing updates and final project review.
- Received commendations from faculty for innovative problem-solving during implementation.

**Research Assistant**  
Academic Research

September 2025 - December 2025  
Aurora, CO

Contributed to an influential study evaluating the environmental impact of construction materials within a university setting. Assisted in compiling literature reviews and data analysis leading to published findings. Played a key role in coordinating research activities, ensuring timelines met project objectives. Efficiently communicated complex challenges during teamwork sessions, enhancing progress. Generated insightful

presentations on findings for academic conferences, showcasing effective storytelling through research.

- Assisted in researching sustainable building practices through data evaluation.
- Produced thorough literature reviews leading to actionable insights for publication.
- Coordinated team efforts to maintain progress on significant research milestones.
- Participated actively in discussions of research strategies for enhanced productivity.
- Utilized MATLAB software effectively for advanced data modeling tasks.
- Presented impactful findings at university conferences, sharpening public speaking abilities.

**Team Member**

March 2026

**Hackathon Project**

Aurora, CO

Collaborated intensely as part of a diverse hackathon team focused on tackling urban infrastructure challenges. Designed an innovative mobile application aimed at improving safety standards on construction sites. Undertook intensive user testing phases that provided invaluable insights, guiding further development stages. Successfully showcased the app to industry judges, receiving accolades for creativity and practicality. Strengthened professional connections through networking opportunities present at the event.

- Contributed to brainstorming sessions, fueling creative output within the team.
- Designed and prototyped a mobile app focusing on construction site safety improvements.
- Facilitated user testing, analyzing feedback to refine application features.
- Presented project outcomes effectively, earning recognition from industry professionals.
- Demonstrated agile methodologies for efficient project management processes.
- Expanded professional network through constructive interaction with industry experts.

**LEADERSHIP & AWARDS**

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- Dean's List, University of Colorado (2025, 2026)
- First Place, University Engineering Competition (2026)

**CERTIFICATIONS**

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- OSHA 10-Hour Construction Safety and Health 📅 2026
- Leadership Foundations Certification 📅 2026

**PROFESSIONAL AFFILIATIONS**

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- Member, American Society of Civil Engineers (ASCE)
- Volunteer, Habitat for Humanity

**LANGUAGES**

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- English (Native)
- Spanish (Intermediate)

**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