

Emma Consbruck

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Education

Colorado School of Mines, Golden, CO	GPA: 3.57
Bachelor of Science Civil Engineering	May 2026
Master of Science Structural Engineering (NT)	December 2026
Dean's List	Fall 2022, Spring 2024, Fall 2024, Spring 2025
CEE-RISE Scholar: The Weitz Company	2025, 2026
FE Civil Exam	Passed 8/14/2025
Plus Math Tutor	Fall 2025

Work Experience

Structural Engineering June 2025 - Present

Ridgeline Engineering Company

- Build and analyze existing telecommunication towers in software programs; design new towers, foundations, data centers, SLD/grounding, and HVAC systems for data centers
- Visit project sites to meet with clients to map towers with a drone and measure ground resistance
- Meet with contractors, inspectors, and state officials in weekly project meetings
- Created a written and video training program for new interns and then trained a new intern

Construction August 2016 - May 2022

Aldrich Construction

- Painted/stained the interior/exterior of over 15 residential and commercial buildings; installed countertops, outlets, vinyl/tile floors, tile/brick backsplashes, sinks, and toilets; and framed, drywalled, and mudded walls
- Worked with customers directly, installing quick solutions to project changes

Proficiencies

Engineering and Technical

- Revit, SolidWorks, Civil 3D, RISA-2D, RISA-3D, Autodesk AutoCAD, Pix4D, Guymast, LPILE, Autodesk Storm and Sanitary Analysis, ArcGIS, 3D Printing, Laser Engraving
- Microsoft Word, Excel, PowerPoint, Da Vinci Resolve Video Editing, BlueBeam
- Topographical Map Reading/Making, Hand Drafting, Grading, Cost Estimating, Structural Analysis, Steel Design, SWMP Planning, Utilities Planning, SLD/Grounding design

Project Experience

ASCE Timber Strong Competition: Build Captain August 2025 - Current

- Work with a group to design a timber structure through calculations, BIM, 3D printing a model of the design, construction drawings, and building the structure at a regional, and potentially national, competition

Field Session May 2025

- Effectively worked with a team to precisely survey land and then perform calculations to transform the information into hand and Civil 3D drawings in a limited timeframe

Colombia Sustainable Development Project January - May 2025

- Designed and created a movable tray stand to sit under a rubble crusher and sieve construction and demolition waste by particle size to make selling the material easier

Design 2: Sava Bistro & Emavine Cafe August - December 2024

- Developed a design for two restaurants on a blank plot of land by grading the property; developing initial, interim, and final storm water management plans; and a utility plan