Caleb Hartsfield

Mining Engineering Intern

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SUMMARY

Mining engineering senior at Montana Technological University graduating in 05/2027, with 2 summers of open pit and quarry experience. Builds pit and haul road layouts in AutoCAD and Deswik, tracks production data in Microsoft Excel and supports short-range mine planning. Holds MSHA Part 48 surface training and works safely around heavy equipment.

SKILLS

- **Mine Planning**
- **AutoCAD**
- **Deswik**
- **Microsoft Excel**
- **Drill and Blast**
- **Ground Control**
- **Surveying**
- **MSHA Regulations**
- **Communication Skills**

EXPERIENCE

Mining Engineering Intern 05/2026 - Present
Silver Bow Copper Partners Butte, MT
Summer internship continued part-time during senior year at an open pit copper and molybdenum mine.

- Update weekly mine planning schedules in Deswik for a **42,000** ton-per-day open pit copper operation.
- Draft bench and haul road layouts in AutoCAD, revising 3 ramp designs after field checks with the pit supervisor.
- Compile shovel and truck production data in Microsoft Excel and report daily tonnage variance to the short-range team.
- Run GPS surveying on 25 drill and blast patterns and record hole depths against the design plan.

Rock Mechanics Lab Assistant 09/2024 - 04/2026
Montana Technological University Butte, MT
Part-time student job in the mining engineering department.

- Prepared 60 core samples for uniaxial compression tests and logged results for 2 graduate research projects.
- Calibrated the load frame before each lab section and kept test records for the department's safety audit.
- Taught 3 lab sections of 20 sophomores how to log core and calculate rock quality designation.

Quarry Laborer (Summer) 06/2025 - 08/2025
Pintler Aggregates Anaconda, MT
Seasonal role at a limestone quarry supplying state highway projects.

- Operated a loader and 40-ton haul truck at a quarry producing about **1,800** tons of crushed stone per shift.
- Completed pre-shift workplace exams under MSHA regulations and logged equipment defects for the maintenance crew.
- Pulled gradation samples from stockpiles, supporting 12 shipments that met state highway specifications.
- Marked highwall cracks and loose rock for the foreman, an early lesson in ground control on a working bench.

EDUCATION

Bachelor of Science 05/2027
Montana Technological University Butte, MT
Mining Engineering

CERTIFICATES

MSHA Part 48 Surface New Miner Training
Montana Tech Mine Safety Training Center
05/2025

First Aid and CPR
American Red Cross
04/2026