

Ryder Fine

View my design portfolio at: Behance.net/ryderfine

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Student in Design Engineering at Colorado School of Mines specializing in product design and additive manufacturing. Extensive hands-on experience with CAD, 3D printing, and prototyping. Skilled in testing, process improvement, and cross-functional collaboration with a focus on building reliable, user-centered products.

Education

COLORADO SCHOOL OF MINES

Golden, Colorado

B.S. Engineering Design

2027

McBride Honors Program, Club Water Polo, Oredigger Leadership Community

Skills

Technical Skills: Die-casting, 3D Printing/Additive manufacturing, Machine shop, Wood shop, Rapid Prototyping/Testing, Python, CAD, EES, FEA, MS Office Suite (Excel, Word, Teams), Design For Additive Mfg (DFAM)

Professional Skills: Problem solving, Leadership, Communication, Creativity, Self-starter, Customer service, Teambuilding, Technical/Proposal writing

Current Projects

ProtoFund Grant: Pneumatic Stilts

Aug 2025 - May 2026

Designed, prototyped, and built adaptive adjustable stilts for a theatrical performance utilizing pneumatic pistons. Redesigned for safety and ease of use within a performance. Managed grant funds and performed cost benefit analysis of new components.

Systems Modeling and Design: System Development on Alternative Mining

Aug 2025 - Dec 2025

Ran complex systems analysis on global resource management, explored alternative material sourcing methods in order to recommend a solution, built quantitative system dynamics models in Vensim to test feedback loops and long-term impacts.

Experience

Labriola Innovation Hub

January 2024 - Present

Technical Assistant/Student Lead

- Researched, selected, and set up \$40,000 of high-end engineering equipment (CNC, Additive MFG, Machining) to support cross-functional teams
- Developed student training system, standard operating procedures, and website supporting 5,000 students
- Assisted in launching 37,000-square-foot building through setup, marketing, and personalized tours to students and donors

Fine Designs

June 2020 - Aug 2024

3D printer manager/designer

- Designed and delivered 100+ custom replacement parts through online storefront, applying CAD, additive manufacturing, and testing for quality
- Upgraded and maintained multiple 3D printers, implementing cost reductions through repair

Semester Abroad in Cyprus

Feb 2024 - June 2025

University of Nicosia

- Collaborated in international engineering teams on projects relating to Formula 1, pump construction, and water infrastructure

Certifications/Accolades

Certified SolidWorks Associate

April 2024

Markforged Certified Additive Expert in Composites

July 2024

Eagle Scout

June 2023