

Isabel A. Roy

Motivated mechanical engineering student with a strong foundation in automotive systems and a passion for vehicle design and innovation, seeking an internship opportunity. Eager to gain hands-on experience and collaborate with industry professionals to drive advancements in vehicle performance and sustainability.

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EDUCATION

Colorado School of Mines - Golden, Colorado — *Bachelors of Science (B.S.) in Mechanical Engineering - Automotive with a minor in Electrical Engineering*

AUGUST 2023 - PROJECTED DECEMBER 2026

EXPERIENCE

Colorado School of Mines - Golden, Colorado Office of Admissions - Student Ambassador

MAY 2024 - PRESENT

Conduct on campus tours for prospective/incoming students and their families.

AMS Grader

JANUARY 2024 - PRESENT

Grade Calculus 2 worksheets and exams, giving guidance to students. Adhere to professor deadlines.

Labriola Innovation Hub - Technical Assistant

MAY 2024 - PRESENT

Worked in all spaces including Makerspace, wood and metal shops, and electronics. Specialized in 3D and 2D printing, performing maintenance on printers and building training for new machines. Worked with other TA's to build and execute workshops geared towards student interest.

Palisades Tahoe Ski Team - Olympic Valley, California Junior Coach

NOVEMBER 2019 - APRIL 2023

Worked under a head coach to keep groups of 10-15 children entertained, safe, and progressing in skill throughout the ski day.

Head Coach

APRIL 2023 - APRIL 2024

Worked to create fun and fulfilling drills to create well rounded skiers with a love of the mountains. Trained junior coaches.

SKILLS

Technical: Java, Python, CAD, SolidWorks, Bambu, Arduino, Adobe, Excel, Lathes, and CNC's.
Professional: Problem solver, compassionate, driven, leadership, communication, and creativity.

Extracurricular: Varsity softball captain, set lead, and stage manager for Mines Little Theater.

PROJECT EXPERIENCE

Battery Workforce Challenge: Working with teams at Mines as well as sponsors at the US Department of Energy and Stellantis to build an electric power unit for a Stellantis vehicle. Competing with other universities nationwide.

Mines Formula SAE: Worked primarily in the aerodynamics subsystem.

Technical Theater: Worked as a set lead to design and build aesthetic and safe theater sets according to directors vision.

Electric Go-Kart: Designed and built an electric go kart, swapping the power unit and brakes.

Women in Manufacturing - Colorado Chapter: General member.

