

# 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.

Denver, Colorado

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## EDUCATION

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

AUGUST 2023 - PROJECTED DECEMBER 2026

## EXPERIENCE

### Colorado Karting Tour - Golden, Colorado Technical Team Intern & Interim Race Director

APRIL 2025 - SEPTEMBER 2025

Ran race weekend activities including flagging, technical inspection, timing and scoring, race directing, and marshalling. Learned how a typical race weekend works and ensured smooth running in nine classes with karters ranging from toddlers to adulthood. Learned how to inspect racing karts for legality and repair common problems.

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

MAY 2024 - AUGUST 2024

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

### 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 & Head Coach

NOVEMBER 2019 - APRIL 2024

Worked under a head coach to keep groups of 10-15 children entertained, safe, and progressing in skill throughout the ski day. Worked to create fun and fulfilling drills to create well rounded skiers with a passion for skiing.

## SKILLS

**Technical:** Java, Python, CAD, SolidWorks, Bambu, Arduino, Adobe, MathCAD, LabView, MatLab, Excel, Lathes, and CNCs.

**Professional:** Problem solver, eager & quick learner, compassionate, driven, leadership, communicative, and creative.

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

## PROJECT EXPERIENCE

### Battery Workforce Challenge:

Working with Mines students as well as sponsors at the US Department of Energy and Stellantis to build an electric power unit for a Stellantis vehicle.

### The Woman in the Garage:

Run a blog/podcast about the engineering side of motorsports for a female audience.

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

**Women in Manufacturing - Colorado Chapter:** General member.

**Women in Motorsports NA:** General member.

