

# Trent Karst

Mechanical Engineering student at Montana State University with strong hands-on mechanical experience and leadership in engineering design. Lead designer for the battery box subsystem and treasurer on the Bridger Solar Racing Team. Passionate about building innovative technologies through engineering and research.

## EXPERIENCE

### **MSU Solar Racing Club, Bozeman, MT — *Lead Designer & Treasurer***

Aug 2025 - Present

Collaborate with electrical and mechanical sub-teams to align design with overall vehicle performance and safety standards. Apply CAD modeling and materials selection to balance structural strength, heat management, and weight efficiency. Elected treasurer for Spring 2026.

### **Karst Farms, Fairview, MT — *Farm Hand***

Oct 2018 - Aug 2025

Operated equipment, and assisted with crop production. Developed a strong work ethic through physically demanding and time-sensitive tasks.

### **Karst Farms, Fairview, MT — *Mechanic***

Oct 2020 - Aug 2025

Supported vehicle and equipment maintenance. Gained hands-on technical skills and attention to detail.

### **Quality Living Counseling, (Remote) — *Web Designer***

Nov 2024 - Mar 2025

Designed and maintained websites with focus on usability and function. Applied creativity and problem-solving to technical projects.

## EDUCATION

### **Montana State University, Bozeman, MT — *B.S. in Mechanical Engineering***

Aug 2025 - Present

Focused on engineering fundamentals with interest in renewable energy and advanced materials. Actively preparing for research and design opportunities. Student of the Honors College.

### **Fairview High School, Fairview, MT — *High School Diploma***

Aug 2021 - May 2025

Graduated Valedictorian with a 4.0 GPA, excelling academically and athletically. Participated in six clubs and three sports.

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**Personal Projects & Extra info:**  
[www.trentkarst.com](http://www.trentkarst.com)

## SKILLS

Mechanical & Design:  
Solidworks, Fusion, Shapr3D,  
AutoCAD, 3D Printing,  
Experimental Design.

Professional: Team  
Collaboration, Project  
Coordination, Digital  
Proficiency, Financial  
Stewardship (Treasurer).

## AWARDS

**Valedictorian** Graduated at the top of Fairview High School.

**Trig Star Award** Placed in the top percentage of students who took the Trig Star test in both Junior and Senior year of high school.

**Academic Olympic Superior and Honorable Mention Awards** In applied math, intermediate math, and problem solving at Academic Olympics in high school.

**Track State Champion**  
Anchored the fastest 4x400m relay in class B Montana for 2025 with state podium placements in other events.

## LANGUAGES

English: Native/Fluent

Italian: Basic

German: Basic