

# Max Burdeen

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## SUMMARY OF QUALIFICATIONS

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Detail-oriented problem solver with a strong analytical mindset and a passion for technical challenges. Independent thinker with the ability to adapt to complex systems and develop creative solutions. Strong communicator with experience translating technical data into clear insights. Collaborative team player with leadership experience in hands-on environments. Self-motivated and resourceful, able to manage projects efficiently under pressure. Committed to continuous learning and professional growth. Adept with:

- SolidWorks (CSWA)
- HAAS CNC Certified
- MATLAB
- LabVIEW
- Abaqus FEA
- Additive Manufacturing
- Machining
- Arduino IDE

## EDUCATION

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### **Bachelor of Science – Mechanical Engineering**

**Expected: May 2026, GPA 3.39**

Colorado State University-Fort Collins, CO  
Green and Gold Scholar

## PROJECTS AND PROFESSIONAL EXPERIENCE

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### **Dyal Senior Design – Colorado State University, Engineering**

**August 2025 - Present**

- Developed a mechanical design from customer requirements through prototype using SolidWorks and structured design reviews.
- Built and iterated functional prototypes using additive manufacturing and hands-on testing to evaluate performance.
- Collaborated in a team to manage project timelines, conduct trade studies, and deliver clear technical documentation.

### **FarmHouse Fraternity – CSU Chapter, Fort Collins, CO**

**September 2023 – Present**

- Served as Philanthropy Chair for 1.5 terms. Planned and executed philanthropic initiatives, fundraising events, and community outreach efforts.
- Served as Director of House Operations and Risk Management for one term. Managed residential facilities and mitigated risk for chapter events.

### **Arborist – Community Tree Care, Madison, WI**

**Summers 2023/2024**

- Delivered high-quality tree care while fostering a professional and customer-focused environment, contributing to client satisfaction and repeat business.
- Operated and maintained light and heavy equipment for tree care, including chainsaws, chippers, loaders, climbing and rigging systems, GRCS, and truck-trailer combinations, ensuring safety and efficiency in arboricultural operations.

### **Bicycle Mechanic – Slow Roll Cycles, Madison, WI**

**April 2019 – Dec 2021**

- Diagnosed and repaired bicycles independently, ensuring optimal performance and safety
- Assembled new bicycles for sale and provided customers with guidance on proper maintenance
- Supported sales and customer satisfaction through conversation and education.

## REFERENCES

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Available on Request