

# Alaina Bentley

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## EDUCATION

### ***Bachelor of Science in Mechanical Engineering***

*Anticipated Graduation May 2024*

Concentration in Aerospace

*GPA: 3.22*

Minor: Mathematics

Colorado State University, Fort Collins, CO

**Relevant Coursework:** Machine Design | Differential Equations | Fluid Mechanics | Engineering Design I & II | Manufacturing Processes | Mechatronics and Measurement Systems | Engineering Materials | Heat Transfer

## WORK EXPERIENCE

### **Test Engineering Intern**

*May 2023-Present*

Continuous Improvement, Woodward Inc., Fort Collins CO

- Uphold and understand all company policies and procedures. Ensure safety standards are met.
- Work on assigned projects. Participate in weekly meetings with supervisors to update and understand critiques and improvements necessary. Present all projects worked on to company executives once completed.

### **Intramural Manager**

*May 2021-Present*

Colorado State University Campus Recreation, Fort Collins CO

- Provide a strong leadership example to all Officials, including performing evaluations and constructive feedback.
- Ensure safety of activity areas, including a safe and effective environment for patrons.
- Uphold all department policies and procedures for patron and employee management: critical thinking, training, enforcement, problem solving, communication, and judgment to identify and apply existing guidelines.
- Serve as risk management front line personnel to check for safety. First responder to injuries or incidents.

## SKILLS AND INTERESTS

- **Software:** SolidWorks; MATLAB; LabVIEW; VeriStand; TestStand; Google Docs; Arduino; Abaqus; ANSYS; Microsoft; Visual Studio Code; HTML & CSS & JS Languages
- **Technical:** Active knowledge of mechanical drawings; GD&T; CNC Machining; Horizontal/Vertical milling operations; Lathe operations; NI hardware and wiring.
- **Soft Skills:** Excellence in customer service, data collection and processing, technical writing, advanced critical thinking, attentive verbal and written communication.
- **Professional Interests:** Design and manufacturing; aerospace engineering; rapid prototyping; software and hardware interference.

## CERTIFICATES

SolidWorks Associate - Mechanical Design  
CPR/First Aid Professional Rescuer

CSWA  
American Red Cross

*December 2021*  
*September 2022*

## PROJECTS

- **Metal Clock:** Utilized milling, lathing, CNC, and finishing machines to produce a working clock of 3 different metals. All parts were checked against GD&T specifications set by drawings
- **Roombot Autonomous Vacuum Cleaner:** Utilized SolidWorks CAD designing along with 3D printing. Arduino coding. All parts and pieces were checked by engineering drawings.