

# Austin Bebee

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## Objective

Driven engineer with 2+ years of experience in the design, development, and analysis of novel electromechanical devices. Seeking to join a strong team dedicated toward continuously improving both technology and the team members.

## Skills

- Computer-aided-design (CAD) – SolidWorks, OnShape
  - Rapid prototyping
  - Coding – Python, Arduino, MATLAB, LabVIEW
  - Material selection analysis
  - Compliant mechanism design
  - Circuits & sensors
  - Geometric Dimensioning and Tolerancing (GD&T)
  - Failure Mode and Effects Analysis (FMEA)
- Developing:**
- Advanced SolidWorks design & analysis
  - Data science & machine learning

## Education

**M.S. Mechanical Engineering** | University of Idaho, May 2020 – *GPA: 4.0*

**B.S. Applied Physics** | Linfield College, May 2018 – *GPA: 3.923*

Minor: Mathematics

## Experience

**Research Assistant** | AgMEQ Lab, University of Idaho (2018 – 2020)

*Lead designer for a novel electromechanical device*

- Fully developed a rapid measurement machine from concept using only 50% of the budget
- Integrated sensors, microcontrollers, a stepper motor, a Raspberry Pi, GUI touchscreen, aluminum frame, & 3D printed enclosures
- Derived novel math model for device's measurements
- Conducted data-driven tests for validation & design improvements
- Analyzed, visualized, & presented data for publications

**Teaching Assistant** | University of Idaho (2018 – 2020)

*Lead lab instructor for Mechanical Design Analysis course*

- Trained engineering students with prototyping, troubleshooting, 3D printing, laser cutting, & product development
- Managed lab lessons to teach MATLAB, Arduino, & prototyping basics to 45 students on a semester basis

## Achievements

### Inventor

- SOCEM (Stiffness of Crops Extrapolation Machine) | patent in process, June 2020

### Author

- *Large Deflection Analysis of Multiple, Inline Cantilever Beams Using the Pseudo-Rigid Body Model*  
ASME, Journal of Applied Mechanics | under review, June 2020

### Athlete

- Linfield College Men's Varsity Soccer | 2014 – 2018