Sam Weston

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EDUCATION

Montana State University, Norm Asbjornson College of Engineering, *Bozeman, MT* Diploma May 2022
- Bachelor of Science in Mechanical Engineering
- Minor in Mechatronics
- GPA: 3.57/4.0

Ballard High School, *Seattle, WA* Diploma 2017
- Project Lead the Way Engineering Curriculum
- GPA: 3.54/4.0 | AP Scholar with Distinction

EXPERIENCE

Bio-Inspired Dynamics Lab, Undergraduate Researcher, *Bozeman, MT* September 2021 – May 2022
- Assisted graduate student and professor with development of mathematical models of flying insects
- Worked on MATLAB code to perform parameter studies of flying insect models
- Focused primarily on the effects of wing flexibility on the power requirements for flight

Tweedy and Popp Hardware, Entry level employee, *Seattle, WA* Summer 2019
- Cashier, restocked shelves, assisted customers

First Robotics, Member of Ballard High School Robotics Team, *Seattle, WA* September 2015 – May 2017
- Team "Viking Robotics"; FRC team 2928
- Head of mechanical design for 2016-17 season
- Designed robot drive base and multiple game element manipulation mechanisms
- Volunteer and mentor for elementary and middle school robotics

ACE Mentorship Program, *Seattle, WA* September 2015 – May 2016
- Structural engineering project work with other students and mentors

SKILLS

CAD Software
- Solidworks: Coursework at and projects at MSU
- AutoCAD: Coursework at MSU
- Autodesk Inventor: High school experience, in class and through robotics club

Coding
- MATLAB: Coursework and research at MSU
- Python: Robotics programming class at MSU
- Arduino IDE: Mechatronics class and capstone project at MSU
- Java: Introduction to data structures and algorithms class at MSU
- C: Embedded systems class at MSU

Fabrication
- CNC Machining: High school experience using Autodesk Inventor HSM CAM software with benchtop CNC mills, in class and through robotics club
- Manual Machining and Manufacturing: Machining class at MSU
- Welding: Welding class at MSU
- 3d Printing: Projects at MSU and personal/extracurricular projects