

Jessie Russell

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Mechanical Engineering major, Spring 2021, 3.35 GPA

Education:

- ❖ **Northern Arizona University, Flagstaff, AZ**, Major in Mechanical Engr (BSE); 3.35 GPA. Aug 2017 through May 2021.
- ❖ **Cochise College, Sierra Vista, AZ**, Major in Engineering; 3.52 GPA. August 2015 through May 2017. Dual enrollment **Running Start** during high school (grades 11-12).

Projects:

- ❖ **Red Feather Capstone - 2020-2021:** Create a device that provides heat to homes for the Navajo Nation at night, without electricity. Perform duties of Team Leader, running team meetings and scheduling tasks. Coordinating, writing code for Arduino and electronics for the device.
- ❖ **Student Design Competition Robot - 2018-2019:** Designed and prototyped manipulator device to capture balls. Created Solidworks model for manipulator device. Competed in E-Fest West 2019.

Work and Volunteer Experience:

- ❖ **Advantage Solutions** - Home Center Assembler

May 2019 to Present:

Assemble for Home Depot. Problem-solve when parts are damaged or do not fit, learn an understanding of the mechanisms of devices, and find the most effective ways to build.

- ❖ **Northern Arizona University Biomechatronics Lab** - Volunteer lab assistant

October 2019 to February 2020:

Worked on a mobility-assisting exoskeleton by machining parts, creating carbon fiber layups, assembling, processing data, and organizing the lab.

- ❖ **American Society of Mechanical Engineers** - Project Coordinator Officer

January 2019 to August 2020:

Organize projects for students to learn skills they do not gain in the classroom. Some projects are: creating a gearbox, windmill turbine, copper tubing heated motor, stirling engine, Arduino morse code, and GCode. Work to improve NAU ASME Chapter.

Skills:

- Matlab/Excel
- Arduino/C/circuit-building
- FEA (ANSYS)
- Solidworks/3D Printing
- System Dynamics/Modeling
- Robotics/Biomechanics
- Machine Shop/Basic GD&T
- Leadership and task management