**Evan Burden**

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Skills Summary

A dedicated engineer and musician with a background in leadership and volunteerism.

* Experienced in Microsoft Word, PowerPoint, and Excel
* Certified in SolidWorks CAD Software – Associate level Mechanical Design
* Skilled with Matlab coding software

Education

* Bachelor of Science in Mechanical Engineering with Distinction Cumulative GPA: 3.714

Graduation: May 2022

University of Arkansas, Fayetteville AR

* Joplin High School Honors Graduate GPA: 4.0

Received: May 2018

* University of Arkansas Dean’s List/Chancellor’s List Spring 2019 and 2020

Electives Taken

* Power Generation

-Complete thermodynamic analysis of power plants with feedwater heater design project, goal of optimizing thermal efficiency.

* Finite Element Analysis

-Derivation and application of Finite Element method to real world engineering problems, solid mechanics-based group project and presentation.

* Indoor Environmental Control

-HVAC analysis for buildings with design project focused on calculating heating loads for an entire building.

* Additive Manufacturing

-Study of 3D printing processes, group design project involving 3D printed lock and key system.

Projects

* VEX Robotics Competitions

Collaborated with other students to engineer and optimize robots to win robotics competitions.

* Arduino Game

Built, programmed, and tested a reaction-based game using Arduino hardware and software.

* Intro to Machine Analysis Robot

Worked with a team of four students to produce a robot able to cross a 50-foot rope in less than 4 seconds.

* Additive Manufacturing Project

Collaborated with a team to design, print, and test a 3D printed lock and key system.

* Senior Capstone Project

Design, discussion, and additive manufacturing of snowboard aid device – ABS printed arm brace and TPU rubber clips.

* Lab III Project

Comparison of experimental/analytical data for a flow system and calculation of friction factor of PVC pipe.

Involvement

* Member of the Razorback Marching Band Tuba Section Fall 2018 and 2019

Performed and traveled for thousands of people and supported the Razorback Football Team with others.

* Hogwild Band Member Fall 2018

Performed in Bud Walton Stadium and Barnhill Arena for basketball/volleyball games.

* Joplin Humane Society Volunteer June 2019-Present

Worked with dogs and cats at local humane society.