XXX XXXXX

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Objective

NMSU Alumni seeking to secure a position that will allow me to build experience by utilizing my skills and assist the company by achieving the goals and objectives set forth.

Education

Bachelor of Science in Mechanical Engineering, Minor in Aerospace Engineering **Expected May 2021**
New Mexico State University, Las Cruces, NM GPA:3.2

Project Experience

ME425, Machine Design Elements **Summer 2020**

- Group tasked to calculate stress and failure analysis on a boom truss conveyor belt system. Applied appropriateanalysis under set initial conditions and parameters. Designed CAD model using Fusion 360 to help visualizehow the loads will affect the system.

ME326, Mechanical Design **Summer 2020**

- Group tasked to use the Engineering Design Process to design a human powered vehicle. Researched and calculated stress and failure analysis to ensure the best quality product. Designed a CAD model using Fusion 360 which allowed to check our stress analysis using FEA techniques.

ME 210, Electronics and Systems Engineering **Spring 2019**

- Built, wired, and programmed a robot car to perform a specific task using the program Arduino. The code was specifically made to guide the car and give it the ability to go through a maze by itself within 2 minutes

ME 222, Introduction to Product Development **Fall 2018**

- Designed an original idea of a key chain opener on Solidworks and 3D printed multiple versions to perfect the best functioning model.

Work Experience

College of Engineering Undergraduate Researcher **February 2020-Present**
New Mexico State University, Las Cruces, NM

- Research Topic: Quantitative Characterization of the Microstructure of Cortical Bone.
- Development of skills for cortical bone specimens' preparations and to learn how to evaluate mechanical properties and microstructure in the microscopy lab.
- Performance of a nano-indentation method which eventually leads us to the Youngs Modulus of the Cortical Bone.
- Development of a reliable protocol for the preparation of cortical bone samples for microscopy analysis.

Affiliations

American Institute of Aeronautics and Astronautics (AIAA), Member **August 2019-Present**

- Our vision is to be the voice of the Aerospace profession through innovation, technical experience, and global leadership.
- What do you do? Community Service? Conferences? The vision is very vague

Society of Women Engineers (SWE), Member **Fall 2018-Present**

- Our vision is to empower women to achieve potential engineering careers and to demonstrate the value of diversity.
- What do you do? Community Service? Conferences? The vision is very vague

Simon Charitable Foundation, Simon Scholar Student Ambassador **August 2019-Present**

- Assist new and returning Simon Scholar Students and guide them to academic resources when they request help.
- Plan appropriate projects and host beneficial events that aid in the scholar's success.

Skills

Experience with

- NX
- Solidworks
- Fusion 360
- Mar Mentat
- Matlab
- Arduino
- 3D Experience
- Excel
- Level 2 HPR certification

Personal

- Communication
- Time Management
- Adaptability
- Teamwork
- Multitasking
- Leadership