

BIOLOGICAL ENGINEERING STUDENT NAME

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EDUCATION

B.S. Biological Engineering | GPA: 3.60
Utah State University (USU)

Spring 2020
Logan, UT

ENGINEERING PROJECTS

Creative 3D Plant Optimization (C3PO) System

NASA - eXploration and Habitation Academic Innovation Challenge

October 2018
Houston, TX

- Researched and designed a 3D printed soil matrix block to facilitate plant growth in microgravity
- Developed a method for simulating microgravity in block designs using a drone
- Authored a technical design proposal for my senior design project

Utilization of Hydrogel Scaffolding

USU Tissue Engineering Course

January 2018 - May 2018
Logan, UT

- Worked with a team to draft cell culture protocol to be used in a master's thesis project studying muscle atrophy in astronauts after microgravity missions
- Analyzed cell differentiation and orientation using imageJ software

Anaerobic Digestion Analysis

Water Environment Association of Utah Design Team

October 2017 - December 2017
Logan, UT

- Designed a wastewater bioreactor process to produce biogas for the Central Valley Water Reclamation Facilities
- Analyzed the volume of liquid food waste received at CVWRF and adjusted the process flow by changing the conventional secondary digesters to increase the plant's capacity
- Qualified for National Environment Federation Technical Exhibition and Conference

LEADERSHIP AND SERVICE

Volunteer

Engineers Without Borders

May 2019 - August 2019
Tijuana, BN, Mexico

- Assisted in the planning of a humanitarian trip to build clean water facilities in Mexico
- Provided opportunities for children in the community to participate in STEM experiments

Co-Founder | Vice President

USU Believing Learning Educating Uniting (BLEU) Club

August 2017 - May 2019
Logan, UT

- Educated the USU community about disability rights while promoting a supportive environment for students with disabilities
- Facilitated fundraising efforts through local and national organizations like DREAM

TECHNICAL SKILLS

Statics

Fluid Mechanics

Aseptic Technique

VBA Coding

Python Modeling

Spectrophotometry

Electrophoresis

Data Analysis