

JOSEPH MESSMER

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OBJECTIVE

A resourceful and hardworking senior materials science and engineer student looking for a full-time position.

EDUCATION

Texas A&M University, College Station, Texas

Bachelor of Science in Material Science and Engineering
Polymer Specialty Certificate

Expected May 2022
GPA: 3.6/4.0

EXPERIENCE

BP America Additive Manufacturing

Senior Design Team Leader

College Station, TX
Aug. 2021- Present

- Coordinated a 5-person team to design and test a new valve design for BP America
- Manufactured the valve using a nickel superalloy and additive manufacturing techniques
- Implemented new testing standards for the project

National Security Innovation Network

X-Force Fellow

Remote
June 2021-Aug. 2021

- Developed a python program streamlining material discovery for electro-optic and infrared sensors for the Naval Surface Warfare Center-Crane
- Investigated quantum computing to improve material modeling

Aggie Challenge

Materials Selection Researcher

College Station, TX
Aug. 2020 – Dec. 2020

- Researched shape memory alloys for plane manufacturing
- Investigated elemental and alloy trends to find cryogenic shape memory alloys

Longs Peak Dairy LLC,

Assistant Operations Manager

Pierce, CO
June 2016 – Aug. 2020

- Managed 3,800 acres of crop production operations: planting, spraying, fertilizing, irrigation, and harvesting

LEADERSHIP

Material Science and Engineering Ambassadors

Vice President Ambassador

Texas A&M University
April 2021- Present

- Promoted the Material Science and Engineering program to high school and first-year engineering students

MSC Spencer Leadership Conference,

Director of Logistics and Operations

Texas A&M University
April 2020 – May 2021

- Developed risk management document during COVID-19 pandemic for approval from Texas A&M University administration
- Organized hotel and food arrangements for 47 MSC Spencer members
- Supported 9 MSC Spencer directors to organize leadership conference

SKILLS

Proficient in:

Microsoft Office
Finite Element Analysis
Python

Technical Communication
Project Planning
Solidworks