

EDUCATION

- Ph.D. in Materials Science and Eng., Fall 2023-Present
Wright State University (WSU), Dayton, OH
Dissertation: *Microstructure Evolution of Forged Metals from 3D Printed Preforms*
- MS in Mechanical Eng., Spring 2021-Spring 2023
Wright State University (WSU), Dayton, OH
Thesis: *Effect of Size and Shape on Nickel Based Super Alloy Processed using Laser Powder Bed Fusion Additive Manufacturing Method*
- BS in Mechanical Engineering, Fall 2016-Fall 2020
WSU, Dayton, OH

RELEVANT COURSES

- Additive Manufacturing
- Mechanics of Material
- Materials Testing Lab
- Engineering Ceramics
- Engineering Programming with MATLAB
- Engineering Design and Solid Modeling
- Mechanical Behavior of Metals • Finite Element Analysis
- Study Abroad in Germany and Taiwan

COMPUTER SKILLS

- SolidWorks
- Matlab
- Abaqus
- Python

RELEVANT WORK HISTORY

- Graduate Research Assistant at WSU, August 2022 – present
- Working in Additive Manufacturing (AM) Lab that houses various 3D printers such as Laser Powder Bed Fusion (LPBF) for metals and nylon, vat polymerization, material extrusion for polymers, inkjet printers for electronics, etc.
 - Characterize (SEM/EBSD, XRD, microhardness, mechanical testing, etc.) nickel-based superalloy and stainless steel, both
 - As processed using LPBF AM method, and
 - After forging
- Graduate Research Assistant at SOCHE, August 2021 – July 2022
- Worked with Clark State College, STEM School, and Wright State University to develop curriculum for manufacturing ecosystem
- Graduate Research Assistant at AFRL through UES Inc, February 2021 – June 2021
- Chemical vapor deposition (CVD) of carbon nanotubes
 - Scanning electron microscopy (SEM) and Raman spectroscopy
- Additive Manufacturing Research at WSU January 2020 – May 2020
- Review different AM processes for metal and polymers.
 - Designed test artifacts using SolidWorks to investigate the effect of metal additive process parameters such as laser power, scan speed, layer thickness, etc. on print quality.

SERVICE

- President, WSU American Society of Mechanical Engineers (ASME),
- Student Member, ASME
- Member, CECS Dean's Student Advisory Board
- Study Abroad Ambassador, WSU

REFERENCES

- Available upon request