

# EMILY N. PIATT

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## EDUCATION

**University of Cincinnati**, Cincinnati, OH

**PhD in Mechanical Engineering** Research Area: Simulations and Modeling for LFAM Current

**Master of Engineering** in Additive Manufacturing May 2021

**Bachelor of Science** in Mechanical Engineering, Minor in Mathematics May 2019

Graduated *Summa Cum Laude* (GPA: 3.921), *Distinguished Honors Scholar*, *Cincinnatus Scholar*

## SOFTWARE EXPERIENCE

Rhino 3D CAD, SolidWorks, Solid Edge, Fusion 360, NX, MATLAB, Microsoft Office, CATIA V5, Geomagic, VGstudio MAX, Simplify 3D, Slic3r, ORNL Slicer

## PROFESSIONAL & PROJECT EXPERIENCE

**Cincinnati Incorporated**, Harrison, OH 2019-Current

*Project Engineer* 2022-Current

- Created project timelines and budgets for both Laser and AM projects.
- Developed department strategy for AM which included working with customers and vendors for input.
- Designed a 250lb/hr extruder which was then run through validation testing.
- Led the design efforts for a new LFAM machine until CI Additive was shut down.
- After CI Additive was shut down, mentored Co-ops and led ME team to finishing new production laser.

*Mechanical Design Engineer* 2019-2022

- Worked with assembly, service, and manufacturing to identify design issues and areas for improvement in the laser cutting and additive manufacturing machines.
- Wrote detailed change orders for design modifications and conducted design reviews for new designs.
- Traveled to customers to identify and resolve field issues.
- Worked with vendors through supply chain issues and found part substitutions when necessary.

**Kinetic Vision**, Cincinnati, OH Summer 2018 &

*Imaging Engineering Co-op* Fall 2017

- Utilized SolidWorks to create parametric models for reverse engineering.
- Performed first article inspection, 3-D metrology, reverse engineering, wall thickness analysis, and failure analysis for CT scanned parts. Responsible for writing reports for each part analysis.

**University of Cincinnati Engineers Without Borders**, Tanzania Africa March 2018

*Safety Officer*, Clean Drinking Water Distribution System Implementation August 2016

**American Showa, Inc., Research and Development**, Sunbury, OH Spring 2017 &

*Mechanical Engineering Co-op*, Power Steering Department Summer 2016

- Performed testing for strength, operation noise, and durability of steering system components.
- Conducted Root Cause Analysis on steering system warranty claims and completed associated reports.
- Designed, held review meetings, and built new jigs and safety guarding for testing equipment.

**University of Cincinnati Mechanical Engineering Department**, Cincinnati, OH Fall 2016

*Teaching Assistant*, Engineering Models I

**University of Cincinnati Engineering Models Honors Research Experience** Spring 2016

- Researched algorithms to find the shortest walking distance between points on campus.

## LEADERSHIP EXPERIENCE

**St. Monica-St. George Parish Council Member** 2019-2022

**UC Engineers Without Borders** 2015-2019

*Internal Vice-President (Chair for International Projects)* 2017/2018

**University of Cincinnati Women's Club Fastpitch Softball** 2015-2019

*President & Coach* 2017-2019