
Education	Massachusetts Institute of Technology <i>Doctor of Philosophy in Mechanical Engineering</i>	Cambridge, MA May 2022
	Massachusetts Institute of Technology <i>Master of Science in Mechanical Engineering</i>	Cambridge, MA September 2019
	Massachusetts Institute of Technology <i>Bachelor of Science in Mechanical Engineering</i> <i>With a Minor in German Studies</i>	Cambridge, MA June 2017
Research	MIT Mechanosynthesis Laboratory <i>Graduate Research Assistant</i> <ul style="list-style-type: none">• Thermal modeling of large-scale polymer extrusion additive manufacturing• Derivation of normalized weld time from thermal modeling to predict inter-layer weld strength	Cambridge, MA Spring 2018 – Present
	Oak Ridge National Laboratory <i>Manufacturing Demonstration Facility Intern</i> <ul style="list-style-type: none">• Derivation of normalized weld time from thermal modeling to predict inter-layer weld strength	Cambridge, MA Summer 2019
	Oak Ridge National Laboratory <i>Manufacturing Demonstration Facility Intern</i> <ul style="list-style-type: none">• Thermal modeling of large-scale polymer extrusion additive manufacturing• Monitoring of the big area additive manufacturing (BAAM) system to ensure no system or part failures	Cambridge, MA Summer 2018
	MIT Precision Compliant Systems Laboratory <i>Undergraduate Research Assistant</i> <ul style="list-style-type: none">• Design tests to determine material properties of epoxy used in brain tissue analysis to develop a machining technique that will enable thinner, wider, and clearer tissue samples	Cambridge, MA Fall 2014 – Spring 2017
Teaching	Multi-Stakeholder Negotiation for Technical Experts <i>Teaching Assistant</i> <ul style="list-style-type: none">• Prepare instructions and materials for biweekly negotiations• Provide guidance to students on negotiation styles and techniques• Assisted in moving the course online during the coronavirus pandemic	Cambridge, MA Spring 2020
	MIT Gordon Engineering Leadership Program <i>Head Teaching Assistant</i> <ul style="list-style-type: none">• Prepare instructions and materials for weekly leadership labs	Cambridge, MA Fall 2016 - Present
	Design and Manufacturing II <i>Teaching Assistant</i> <ul style="list-style-type: none">• Designed and adapted hands-on weekly learning modules to give students an understanding of the fundamentals of common manufacturing processes	Cambridge, MA Fall 2019
Activities	Society of Manufacturing Engineers (2013 -Present); Society of Women Engineers (2013 – Present); American Society of Mechanical Engineers (2013 – Present); Pi Beta Phi Fraternity (2014 – Present); Pi Tau Sigma Honors Society (2015 – Present), Tau Beta Pi Honors Society (2016 - Present)	
Skills	Computer: MATLAB, Python, SolidWorks, Mastercam, HSMWorks Machine Shop Experience: Manual Machines, CNC Lathe and Mill, Basic Metrology, Injection Molding, FDM, SLA	