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University of Illinois College of Engineering

[Linkedin](#)

Materials Science and Engineering

Bachelor of Science expected 2022

Seeking work in Mechanical Design, Rapid Prototyping, Automation, Fabrication, and Concept Design

Experience & Education:

Design Programs

- ❖ Solidworks Certified Professional - 3500+ hours
- ❖ Fusion360 - 500+ hours
- ❖ Mach3 (custom CNC software) 200+ hours
- ❖ Slic3r, Simplify3D, Creo, Inventor, Blender, Mechlab, Cura, Meshlab, & Repetier - 300+ hours
- ❖ Adobe Photoshop & Illustrator 800+ hours
- ❖ Java, Python, and Shell Scripting 200+ hours

Fabrication

- ❖ Advanced 3D printing practices and experience with FDM, SLS, and various styles of resin printers
- ❖ Sand casting, silicon and plaster molding, and design for injection molding
- ❖ Vacuum and heat forming plastic
- ❖ Sheet metal forming
- ❖ [CNC router](#)/laser cutter/water jet/plasma cutters
- ❖ Experienced with lathes, mills, metal/wood bandsaws, chop/circular/miter saws, mig welding
- ❖ Worked as an apprentice for a blacksmith for two years

College Courses

- ❖ Materials Science - Mechanics, Processing, Fabrication, and Thermodynamic Properties
- ❖ Electrical Engineering - RC/RLC Circuit Design
- ❖ Mechanical Engineering - Creo Design, [Rapid prototyping](#), 3D Scanning & Design, Tribology, and Steel structures

Clubs & Organizations

- ❖ UIUC Disc golf club
- ❖ iRobotics ([1 & 30 Lbs battlebot competitions](#))
- ❖ Science Olympiad (2011-2017)
- ❖ Model United Nations (2014-2017)

Certifications

- ❖ Lean Six Sigma Yellow Belt
- ❖ Solidworks Mechanical Design Professional

Work Experience:

Orbital Effects 2021 Intern, 2021-2022 Part-time

- ❖ Mechanical design, prototyping, design analysis, and fabrication of multiple systems for satellites, satellite supporting equipment, and cost reducing practices (Not on website due to NDA)

Micro-Lam Part Time 2021-2022

- ❖ Complex parametric models to allow fast turn-around for custom work-orders & design review of multiple systems. (Not on website due to NDA)

Amway 2019 and 2020 Internships

- ❖ Complete design, fabrication, and assembly of multiple key components in a new assembly line as well as ergonomic solutions for workers using advanced 3D printing strategies.
- ❖ 2019 - [Overview](#), [Queuing system](#), [Tray forming](#), [Lightweight 3D printed manipulators](#), [Ergonomic unloading for workers](#)
- ❖ 2020 - (Not on website due to NDA)

Upwork (Contracting website) 2017-2019

- ❖ Concept development, product fabrication, 3D printing, photoshop, and illustration work.
- ❖ [Paintball grenade slinger](#), [Textbook illustrations](#), [Suitcase car topper](#), [Geometric reference - Hexacoil](#)

Steelcase 2017

- ❖ Design, prototyping, and fabrication of custom tools to aid workers in transporting heavy boxes and products in shipping facilities

Team Activities:

FIRST Robotics (2013-2017)

- ❖ Team Captain - 2017
- ❖ Design & Strategy Lead 2015-2017
- ❖ World Championship Semi Finalist 2015-2017
- ❖ Won design and creativity awards 2016 & 2017
- ❖ Taught classes for prototyping, CNC operating, Solidworks, tool safety, and tool pathing with Fusion360