

Emily A. Hettinger

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Education

UNIVERSITY OF ILLINOIS, Urbana-Champaign, IL
Bachelor of Science in Systems Engineering and Design
Focus: Product Design & Development

May 2023
GPA: 3.62/4.0

Professional Experience

Industrial Design Engineering Intern
AMAZON, Seattle, WA

May 2022–August 2022

- Engaged with third party vendors to design high-speed material handling equipment for future high-volume sortation centers, proposing a reduction of over \$4.5M in capital estimates
- Prepared business case comparison to present to stakeholders a total cost savings of 32% as well as opportunities for increase efficiency
- Supported the integration of a new system design between a variety of cross-functional programs using proof-of-concepts, data analysis, and knowledge of the current system

Laboratory Assistant for SE 101
UNIVERSITY OF ILLINOIS, Urbana-Champaign, IL

August 2020–Present

- Provide guidance to 100+ students as they learn the basics of CAD software (Autodesk Fusion 360) and teach ways to improve their design techniques
- Lead office hours and work individually with students in modeling labs as well as gain hands-on experience with 3D printing prototypes for students to visualize designs

Continuous Improvement Engineering Intern
EATON CORPORATION, Asheville, NC

May 2021–August 2021

- Implemented new Change Management workflow to entire plant to establish a process for reporting major part errors, saving the company time and money
- Optimized and debugged VBA Macros vital to company efficiency in order to reduce run time
- Assessed current business practices among my team to rebuild their technical data storage

Additional Skills

Computer-Aided Design (CAD)

- Created complex 3D sketches and designs with Autodesk Inventor to reverse-engineer a microscope as well as design an electric guitar from concept to production

Six Sigma Green Belt Certification (SSGBC)

- Learned methods to implement sustainable and high-efficiency solutions in the workspace and in projects
- Trained in ways to optimize and organize data, problem-solve, and minimize loss

Activities and Courses

Theta Tau, Kappa Chapter *Professional Engineering Fraternity*

- Serving on Executive Board as Bernay's Chair to design apparel for 100+ members and maintain organization's brand by implementing ways to maintain customer-focused designs

Relevant Courses

- Engineering Graphics & Design, Engineering Design Analysis, Finite Element Analysis, Comp-Aided Product Realization, Design Thinking/Need-Finding, Technology Entrepreneurship, Mechatronics

Design Project Portfolio: <https://emilyah3.wixsite.com/designportfolio>