

STEPHEN KRIDEL

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EDUCATION

Bachelor of Science in Mechanical Engineering | University of Cincinnati

August 2016 – May 2021

- GPA: 3.409

EXPERIENCE

Product Development Co-op | FirstBuild, innovation center & micro factory

August 2019 – December 2019

Louisville, Kentucky

- Utilized 3D printing to develop an injection moldable nozzle assembly through 10 iterations in 2 weeks.
- Achieved company approval to file a patent for the nozzle assembly. Listed as lead inventor on patent application.
- Ideated and executed a cost-effective solution to prototype silicone parts by designing and 3D printing molds in-house.
- Led a team of interns and developed an adaptive bass drum pedal that featured a solenoid driven mechanism.

Design Engineering Co-op | GE Appliances

January 2019 – May 2019

Louisville, Kentucky

- Developed a program in Python to assist in optimizing sealed system performance.
- Utilized rapid prototyping to upgrade a lighting assembly. Led an action workout to walk the manufacturing team through the production process and spark conversation for improvement.

Project Engineering Co-op | GE Appliances

May 2018 – August 2018

Louisville, Kentucky

- Inherited a stalled year-old project and utilized weekly pulsing meetings to drive quick progress qualifying 20 parts through the Production Part Approval Process (PPAP).
- Designed a solution to a quality and cost issue in left-hand refrigerator doors. Managed 3 successful trial runs that tested 27 doors with a first pass yield of 96%.

Project Engineering Co-op | GE Appliances

August 2017 – December 2017

Louisville, Kentucky

- Recognized opportunity in the efficiency of how our engineering team analyzed data. Improved our process by developing a macro in VBA that created a visualization of user-selected data.

Team Member | Engineers Without Borders – USA

August 2016 – December 2018

University of Cincinnati - Mara, Tanzania

- Authored the O&M Manual and Construction Safety Plan. Traveled to Tanzania spring of 2017 for an assessment trip.

LEADERSHIP

Board Member | Bearcat Pantry 2.0

August 2018 – May 2019

University of Cincinnati

- Sat on a board of UC faculty and administrators to support students facing financial problems and hardships.

President | UC Hunger Awareness

January 2017 – May 2019

University of Cincinnati

- Ideated and managed a project to build a full-scale web application to manage inventory at university food pantries.
- Developed our website using HTML, CSS, and JavaScript. Hosted the website using AWS

TECHNICAL SKILLS

PTC Creo | SolidWorks | Onshape | MATLAB | JavaScript | Node.js | Express | CSS | HTML | 3D Printing | Silicone Molding