Lindsey Alumbaugh

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Objective

To help others through a biomedical engineering internship in R&D in the summer of 2020

Education

Bachelor of Science Biomedical Engineering
May 2021
Rose-Hulman Institute of Technology, Terre Haute, IN

Skills

- *Proficient in:* SolidWorks, 3D printing/rapid prototyping, Technical writing, Public speaking
- *Experienced with:* FDA medical device regulation, Engineering design, Medical device repair
- *Familiar with:* Basic machining, Arduino microcontroller, Python, AC/DC circuits

Experience

Rose-Hulman Ventures, Terre Haute, IN May-August 2018
Engineering Intern

- Designed, prototyped, and tested an adapter that increased the navigation abilities of a brain access system
- Prototyped concepts for a new vascular treatment product
- Collaborated with team members and the CTO of NICO to evaluate and improve current device designs

Engineering Design Studio, Rose-Hulman Institute of Technology August 2018-Present
Teaching Assistant

- Ensured correct use of SolidWorks by evaluating student models and drawings
- Provided design and modeling input for students' final design projects
- Guided students in technical writing and public speaking in preparation for media presentation

Engineering World Health, Santiago, Dominican Republic August 2019
Volunteer

- Prioritized repair order for medical devices in the NICU of a developing hospital
- Learned about how medical devices could fail in developing environments
- Repaired devices and delivered them to the NICU, where they were implemented

Probo Medical, Fishers, IN May-August 2019
Repair Intern

- Evaluated condition of GE ultrasound transducers based on condition of array
- Repaired transducers using a step-by-step systematic approach if possible
- Scrapped transducers for parts if repair was not possible and catalogued each piece

Projects

Puzzle Box for Reach Services March-May 2018

- Produced a toy for children with visual impairments that provided audio feedback
- Presented prototype at a public showing on campus and delivered finished product

Batman Utility Toy for Reach Services August-October 2017

- Created a toy that utilized games for physical therapy aid for children with motor disabilities
- Scaled difficulty of levels to allow the toy to advance with the child in their therapy

Honors and Activities

- Alpha Omicron Pi, Active Member — Dec. 2018-Present
- Rose-Hulman Merit Scholarship — Aug. 2017-Present
- Rose-Hulman Catapult Scholarship — Aug. 2017-Present
- Rose-Hulman Bands (Concert Band, Orchestra, Pep Band, and Brass Quintet) — Aug. 2017-Present