

Christina Holshue

Portfolio and Website: <https://chrissyholshue.github.io>

Contact: ChrissyHolshue@outlook.com

EDUCATION

Bachelor of Science, Biomedical Engineering, Concentration in Orthopedic Engineering & Biomechanics

Electrical & Computer Engineering

Anticipated May 2023

Rowan University, Glassboro, New Jersey

GPA- 3.73 out of 4.0, Dean's List (Fall 2019-Spring 2021, Spring 2022)

RESEARCH & EMPLOYMENT EXPERIENCE

R&D Intern for Becton Dickinson

Summer 2022-Present

- Utilized design control principles to digitize the DHF of a newly acquired product in the Polarion system (LR2T)
- Assisted and taught the R&D how to effectively optimize and use LR2T through demonstrations
- Presented end of summer poster presentation to BD about LR2T and created an informational flyer for LR2T

Rapid Prototyping Intern for Electrical & Computer Engineering Department

Rowan, Fall 2020-Spring 2022

- Maintained and enhanced 3D printing fabrication center to print and monitor remotely for Rowan University
- Printed and advised Rowan University community projects for classes and research

Design Intern at Rowan

Fall 2020-Spring 2022

- Designed schematics and PCBs in DipTrace as well as milled and assembled the PCBs
- Created automatic cat feeder, analog hearing aid pendant, custom light up ornament, and acrylic light stand
- Designed in SolidWorks and 3D printed prototypes for personal and professional projects: prosthetic hand and arms for startup society, automatic cat feeder, and functional apparatuses for labs
- Designed, wrote, and taught electrical engineering labs for Electronics 1 class: automating V-I curves for diodes with MATLAB, exploring uses of different op amps, and reverse engineering old electronics

Undergraduate Research Assistant in Dr. Miri's Research Lab, Mechanical Engineering Department, Rowan University; PI: Amir Miri

Spring 2021-Winter 2021

- Wrote MATLAB code to automatically process cell migration distance from images
- Cultured and made spheroids with sarcoma cells. Captured Z-stack images of spheroids with microscope
- Conducted live-dead staining experiments and processed live-dead images using ImageJ
- Conducted mass transfer diffusion experiments of RhB in hydrogels
- Wrote custom GCode for bioprinter to print dynamic 3D structures out of hydrogel

Engineering Clinic Design projects, Rowan University, Glassboro NJ

Spring 2022-Present

- Research intern with MedEast Prosthetics. Tested mechanical properties of a variety of 3D printed resins, edited finger prosthetic design.

TEAMWORK, INVOLVEMENT AND LEADERSHIP

- Completed semester-long, multidisciplinary team focused engineering design projects
- Student on multidisciplinary team that consist of collaboration, networking, and giving back to the community via engineering services, providing sanitary products in bathrooms, and food for students
- Volunteered for outreach engineering workshop at CCTECH
- Strong leadership and management skill from managing teams, planning projects, and presenting deliverables

ACTIVITIES AND INTERESTS

- Member of WIE, SWE, & BMES