

**Christina Holshue**  
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## EDUCATION

**Bachelor of Science, Major in Biomedical Engineering**  
**Minor in Electrical and Computer Engineering**

**anticipated May 2023**

Rowan University, Glassboro, New Jersey

GPA- 3.75, Dean's List (Fall 2019-Spring 2021)

Rowan Foundation Scholarship & Rowan Scholars Program Scholarship

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## TECHNICAL SKILLS

**Operating Systems:** Windows, MAC OS

**Communication:** Microsoft Office (Word, Excel, PowerPoint), Google Drive Suite

**Design Tools/Software:** CAD, SolidWorks, MATLAB, ImageJ, PrusaSlicer, Cura, DipTrace,

**Mechanical Tools/Skills:** Nikon Eclipse Ti2 microscope, confocal microscopy, SLA printer, FDM 3D printer, bioprinter, PCB milling, laser cutter, surface mount and through hole soldering, micro pipetting, drill press, table & miter saw,

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## RELEVANT EXPERIENCE

**Research Lab, Rowan University, Camden NJ**

**Spring 2021-Winter 2022**

- Cultured and split sarcoma cells
- Captured Z-stack images of cell spheroids using Nikon Eclipse Ti2 microscope
- Conducted live-dead staining and processed live-dead images using ImageJ
- Edited and expanded MATLAB code to automatically process cell migration distance
- Conducted mass transfer diffusion experiments of RhB in hydrogel
- Wrote GCode for bioprinter to print 3D structures out of hydrogel
- Co-authored research paper to be published

**3D-Printing**

**Fall 2020-Present**

- Maintained 3D printing fabrication center for Rowan University
- Enhanced 3D printer with a Raspberry Pi and camera module to print and monitor remotely
- Printed prosthetic hands and arms for a startup society
- Printed Rowan University community projects for classes and research
- Designed in Solidworks and 3D printed prototypes for personal and professional projects: prosthetic hand, automatic cat feeder, functional apparatuses for labs

**Electronics**

**Fall 2020-Present**

- Designed PCB schematics and boards in DipTrace
- Milled and surface mount soldered PCBs
- Created an Arduino automatic cat feeder
- Developed custom ornament PCB

**Design projects, Rowan University, Glassboro NJ**

**Fall 2020-Spring 2021**

- Created salt leached porous PCL scaffolds and explored the impact of different parameters
- Determined the optimal parameters for lung tissue- Sophomore Clinic

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## COMMUNICATION, TEAMWORK, AND LEADERSHIP

- Completed semester-long, multidisciplinary team projects
- Student worker for an engineering team- multidisciplinary team that consist of collaboration, networking, and giving back to the community
- Wrote and presented progress reports, memos, and white papers
- Managed team, planned projects, and presented deliverables