

LUCAS LASSINGER

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EDUCATION

University at Buffalo, The State University of New York
Bachelor of Science Biomedical Engineering

Expected May 2021

RELEVANT EXPERIENCES

Self Determination Assistant | *The Resource Center*

May 2020 – Present

- Create the opportunity for the achievement of greater independence, integration, individualization, and productivity for a student with autism
- Identify and solidify a variety of relationships between student and others
- Provide the necessary support to empower individuals to be successful in an environment of their choosing

Technology Ministry Assistant | *Hillcrest Baptist Church*

May 2020 – August 2020

- Leverage available technology to improve Church's reach in the face of COVID-19
- Produce five live-stream videos and two podcasts each week
- Plan and execute technology upgrades estimated to cost upwards of \$20,000
- Communicate with older Church members to enable their involvement in programs and events

Resident Advisor | *University at Buffalo*

August 2018 – May 2020

- Promoted events and informational session to upwards of 800 students
- Responded to emergencies and helped mediate resident conflicts
- Educated new college students on guidelines and living habits

PROJECTS

Remodeling a Rehabilitation Device | *Project Manager*

October 2019 – June 2020

- Facilitated organization and communication among team members and helped to steer and catalyze project
- Reverse engineered and 3D Modeled an improved SaebFlex device using Autodesk Fusion 360
- Worked to improve the design and development of the device to allow for more customized and cost-effective therapy

Left Upper Limb Prosthetic capable of American Sign Language

May – July 2020

- Designed a prosthetic capable of communicating through American Sign Language for a left upper limb amputee
- Used Fusion 360, CURA, and TinkerCAD to create and slice model, simulate electronics, and write complete Arduino code
- Drove project from ideation to completion in a six-week timeframe

Restoring Depth Perception for the Partially Blind

September - November 2018

- Researched neuroscience and eye interactions to develop a prototype pair of "smart glasses" using SolidWorks
- Developed a plan to use optical technology to provide function to smart glasses and restore user's binocular vision

SKILLS

- Languages: MATLAB, Python
- Technologies: Autodesk Fusion 360, Arduino, CURA, TinkerCAD, SolidWorks, Adobe Lightroom Photoshop

LEADERSHIP ACTIVITIES

Secretary | *Biomedical Engineering Society*

June 2020 - Present

- Manage all communications for club events including promotions, reminders, scheduling, and meeting minutes
- Report to student government to provide evidence of meeting all requirements

Student Mentor | *Seneca Street CDC*

February – May 2018

- Served as a student mentor to children in the Babcock Community of Buffalo during an after-school program
- Assisted students (K-8) with homework, dinner, and recreation time on a weekly basis

MEMBERSHIPS

Biomedical Engineering Society | Engineering World Health | UB e-Nable | UB Student Leadership International Dialogue and Exchange (SLIDE) | UB 3D Printing Working Group (3DPWG)