

# LUCAS LASSINGER

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## EDUCATION

**University at Buffalo, The State University of New York |**  
**Expected May 2021 B.S. Biomedical Engineering**

## RELEVANT EXPERIENCES

**Participant | University at Buffalo Digital Manufacturing Lab Workshop Series |** **October 2019**

- Studied to 3D printing theory, printer technologies, and modeling fundamentals
- Culminated in final design and printing project of an object of irregular linear rotation

**Healthcare Career Advantage Development Intern | UPMC Chautauqua WCA Hospital |** **June – July 2018**

- Participated in a six-week summer internship focused on connecting with and shadowing physicians
- Introduced to 12 medical claiming over 150 hours of shadowing

**Screw Machine Operator | Chautauqua Precision Machining |** **December 2017 – January 2018**

- Operated Brown and Sharpe screw machines
- Performed daily startup, shutdown, loading, unloading, and inspection while referencing engineering drawings
- Assisted in shipping and receiving as needed

## WORK EXPERIENCES

**Substitute Teacher | Jamestown Public Schools |** **February 2018 – Present**

- Fulfills lesson plans left by the teacher while managing classroom behavior while resolving altercations amongst students
- Documents daily events for the teacher and motivates students to always do their best

**Resident Advisor | University at Buffalo |** **August 2018 – Present**

- Peer student-leader responsible for evaluating and resolving the needs of varied urgency for residents in dorms
- Actively manages a range of dilemmas while keeping a log of interactions and informing authorities appropriately

**Family Ministries Intern | Hillcrest Baptist Church |** **May 2018 – August 2019**

- Planned, organized, coordinated, and led activities for children and youth grades K-12
- Drove networking with youth, families, staff, and ministry volunteers to build relationships, relay information, and follow up on specific events, ministry needs, projects, and objectives

## PROJECTS

**Co-Leader | Reverse Engineering, Modeling, and 3D Printing a Rehabilitation Device |** **August 2019 - Present**

- As a project lead, I guide organization and communication among team members and help to steer and catalyze project
- The group is focused on reverse engineering and 3D Modeling a SaeboFlex device using Autodesk Fusion 360
- The project objective is to improve the design and development of the device to allow for more customized therapy

## SKILLS

- Autodesk Fusion 360
- SolidWorks
- Arduino (C/C++, Breadboard)
- MATLAB
- Adobe Lightroom Photoshop
- Microsoft Office Suite

## ACTIVITIES

**Member | National Biomedical Engineering Society |** **August 2017 – Present**

- Most active member University at Buffalo Student Chapter 2017-2018 Academic Year

**Member | Engineering World Health |** **August 2019 – Present**

- An active member of the University at Buffalo Chapter
- Member of projects committee designing device to submit to BMES Conference 2020

**Member | University at Buffalo e-Nable Chapter |** **October 2019 – Present**

- Active member of the University at Buffalo chapter of the open-source 3D printed prosthetic global volunteer network

**Participant | Student Leadership International Dialogue and Exchange (SLIDE) |** **May – June 2019**

- Traveled to London, England, and Paris, France studying leadership and diversity
- Maintained journals and reflections about daily leadership experiences and dialogue in a new environment

**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