

# Ezekiel Bibbo

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"Creative and versatile designer dedicated to improving people's lives through innovative solutions. With expertise in problem-solving, collaboration, and adaptability, I am committed to making a positive impact and consistently delivering my best effort in any role."

## EDUCATION

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### University of Pittsburgh, Swanson School of Engineering

Bachelor of Science in Engineering

Bioengineering, Minor in Mechanical Engineering

Pittsburgh, PA

Expected Graduation: April 2024

## WORK EXPERIENCE

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### Accessible Prosthetics Initiative

Research Assistant, Prosthetic Designer

Pittsburgh, PA

April 2023 - Present

- Collaborating with a team on a 3D knitted liner project to improve prosthetic socket comfort.

### University of Pittsburgh Brain Institute

Research Assistant

Pittsburgh, PA

February 2023 - Present

- Maintenance and conduction of experiments on cell lines related to Amyotrophic Lateral Sclerosis (ALS).

## ACADEMIC PROJECTS

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### Medical Product Design

Device Engineer

Spring 2023

- Created medical product prototypes such as blood pressure monitors, using learned expertise and technical skills like advanced modeling, molding, and vacuum forming.

### Statics & Mechanics of Materials

Bridge Project - Engineering Manager

Fall 2021

- Designed and tested various models using SolidWorks and Truss Analysis methods to determine the optimal bridge structure.

### Flower Microbiome Lab

Field Researcher

Fall 2021

- Collected, cultivated, and tested bacterial samples from the local environment and performed cell assays before donating findings to research.

### Computer Applications in Bioengineering

Programmer and Hardware Developer

Fall 2021

- Collaborated with a team to design, test, and refine an eye-mapping device using MATLAB, breadboard circuitry, and an external DAQ.

## ACTIVITIES

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### Accessible Prosthetics Initiative (API)

Co-Lead, Production Team

- Managing project development, volunteers, and fostering collaboration on prosthetic device design and production.

### Biomedical Engineering Society (BMES)

Member

## SKILLS

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**CAD and Design Software:** Autodesk Inventor, Fusion, Solidworks

**Fabrication Techniques:** 3D Printing, Laser Cutting, Vacuum Forming, Liquid Molding

**Programming:** Intermediate proficiency in MATLAB and Python