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

University of Pittsburgh, Swanson School of Engineering Pittsburgh, PA

Bachelor of Science in Engineering *Expected Graduation: April 2024*

Bioengineering, Minor in Mechanical Engineering

WORK EXPERIENCE

Accessible Prosthetics Initiative *April 2023 - Present*

Research Assistant, Prosthetic Designer

- Collaborated with a team on a self-adjusting prosthetic liner project to improve amputee's comfort.

XProjects *May 2023 - August 2023*

Research Assistant and Design Lead

- Integrated innovative vibration systems into prosthetic systems to alleviate phantom limb pain in amputees.

Neuromotor Recovery and Rehabilitation Laboratory *May 2023 - August 2023*

Research Assistant

- Utilizing Transcranial Magnetic Stimulation (TMS) therapy to aid in the recovery of neuromotor function.

University of Pittsburgh Brain Institute *February 2023 - May 2023*

Research Assistant

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

ACADEMIC PROJECTS

Medical Product Design *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 *Fall 2021*

- As Engineering Manager, led a team to design and test various bridge models using SolidWorks and Truss Analysis methods to determine the optimal bridge structure.

Flower Microbiome Lab *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 *Fall 2021*

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

ACTIVITIES

Accessible Prosthetics Initiative(API), *Production Team Lead*

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

SKILLS

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