Ezekiel Bibbo

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Versatile designer passionate about innovative solutions to improve lives.
Skilled in problem-solving and collaboration, committed to making a positive impact 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 Pittsburgh, PA
Research Assistant, Prosthetic Designer *April 2023 - Present*
- Collaborating with a team on a 3D knitted liner project to improve prosthetic socket comfort.

University of Pittsburgh Brain Institute Pittsburgh, PA
Research Assistant *February 2023 - Present*
- Maintenance and conduction of experiments on cell lines related to Amyotrophic Lateral Sclerosis (ALS).

ACADEMIC PROJECTS

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

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

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