

HANNAH PHAM

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EDUCATION

University at Buffalo, The State University of New York

Bachelor of Science in Biomedical Engineering, May 2024

- Honors College
- Alpha Epsilon Delta, Pre-health Honor Society

Relevant Coursework: Biomaterials & Mechanics, BE Circuits & Signals, Biofluid Mechanics, Medical Imaging

ENGINEERING PROJECTS

Brain Machine Interface Design Challenge, University at Buffalo, Spring 2022

- Identified problem with prostheses and designed AI-based solution
- Performed market research of functional prostheses
- Competed in pitch competition against 11 teams

BE 305 Final Research Paper, University at Buffalo, Fall 2022

- Researched 3D scaffolds of Gel MA and microcarriers
- Analyzed efficacy of Gel MA and microcarrier to heal burn wounds

EAS 207 Pool Lift Design Project, University at Buffalo, Spring 2022

- Applied knowledge of statics to design accessible pool lift
- Worked with team to analyze, model, and design pool lift

BE 201 Final Design Project, University at Buffalo, Fall 2021

- Designed prototype of biomedical device
- Improved design of Da Vinci robot surgery device to increase efficiency
- Worked with team to present final design

EAS 230 MATLAB Coding Project, University at Buffalo, Summer 2021

- Analyzed forces on vehicle suspension using MATLAB

EAS 199 Wind Turbine, University at Buffalo, Fall 2020

- Performed experiments to design turbine with optimal efficiency
- Identified challenges based on experimental results to implement more innovative designs
- Worked with team to present findings and final design

TECHNICAL SKILLS

- Proficient in MATLAB
- Basic knowledge of SolidWorks
- Basic knowledge of Python

INVOLVEMENT

- **Vietnamese Student Association**, University at Buffalo
 - *Secretary*, May 2022-Present
- **Association of Pre-Medical Students**, University at Buffalo
 - *Volunteer Coordinator*, May 2022-Present
- **Niagara Falls Memorial Medical Center**
 - *Volunteer*, May 2021- Present