

Anya I. Wansha

90 Kearney Dr. Rochester, NY 14617 • aiwansha20@gmail.com • 585-743-7071

www.linkedin.com/in/AnyaWansha

Education

Bachelor of Science, Biomedical Engineering, Anticipated Graduation Date: May 2024 GPA:4.0

University at Buffalo, The State University of New York

Honors: Presidential Honors Scholar, Dean's List all Applicable Semesters

Work Experience

Specimen Management Technician, Rochester General Hospital, Rochester, NY July 2022 – Present

- Learned computer data-entry software for patient information and tracked specimens to 5 hospitals within Rochester Regional Health system
- Answered 15+ phone calls daily to aid nurses in collection procedures, navigate patient results, and resolve issues with specimen quality
- Managed the loading and unloading of blood diagnostic machines using Bloodborne Pathogen protocol

Undergraduate Research Assistant – UB Oral Biology Lab, University at Buffalo, February 2022 – Present

- Wrote standard operating procedure for creating polymeric cell scaffolds with 3-member team
- Performed Bradford's Assay and Western Blotting experiments to analyze protein-signaling pathways
- Presented findings at the University at Buffalo's Genetics, Genomics, and Bioinformatics Research Day
- Trained 4 new lab members on cell culturing protocol and aseptic technique

Engineering Projects

Upper-Limb 3D Printed Neuroprosthetic Design Project, July 2023 – August 2023

- Designed 3-part, upper-limb prosthetic with 2-motor elbow and shoulder joint movement in Fusion 360
- Integrated shoulder EMG sensor for activation of motors using Arduino IDE Programming
- Wired final prototype to achieve 5 predefined design goals: independent motion, synchronous motion, dual-directional motion, variable speed, and user feedback

UB Blackstone Launchpad Brain Machine Interface Challenge, February 2023 – March 2023

- Compiled a pitch deck along with 4-member team for a digital health system to track/treat post-concussion symptoms in Division I Athletes
- Met with venture coach mentors to enhance entrepreneurial development of target markets
- Led data collection from collegiate athletes regarding symptom monitoring using 15-question survey

Technical Skills

Computer: Microsoft Office, Google Suite, SoftLab LIMS, ImageJ, MATLAB, Arduino IDE

Manufacturing: Machine Shop experience including bench mill, lathe, and CNC programming/milling

CAD Modelling: Proficient in Autodesk Inventor and Fusion 360, some experience with SolidWorks

Prototyping: 3D Printing, Laser Cutting

Laboratory: General Chemistry Techniques, Chemical and Bloodborne Pathogen Safety Training, Cell Culturing, Aseptic Technique, Electrospinning, Molecular Assays including Western Blotting and Bradford's

Leadership Experience and Activities

Honors College Orientation Leader, UB Honors College, September 2023

Member, Ny Nu Tau Beta Pi Engineering Honor Society, April 2023 – Present

Treasurer and Member, UB Biomedical Engineering Society (BMES), September 2021 - Present

Student Leader (Assistant), First-Year Engineering Courses, September 2021 – Present