

Chloe Miller

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EDUCATION

University at Buffalo, The State University of New York

Expected May 2024

Bachelor of Science, Major in Biomedical Engineering, Minors in Human Factors and Ergonomics and Mathematics

GPA – 3.9/4.0

SKILLS

MATLAB, Microsoft software (Excel, Visio, Word, PowerPoint), Minitab, basic Fusion 360, cell culture, basic French

ENGINEERING PROJECTS

Biomechanics of Soccer Kicks, University at Buffalo, New York

Spring 2022

- Collaborated with 5 peers to investigate biomechanics of shooting and passing soccer kicks
- Utilized Vicon motion capture technology to track motions of body parts for 4 kicking trials
- Analyzed motion capture data in Excel and MATLAB to calculate forces and torques in legs for all 4 trials

RESEARCH EXPERIENCE

Undergraduate Research Assistant, Department of Industrial Engineering, University at Buffalo

Fall 2022 - Present

- Investigated the effects of external stressors on 20 novices learning endotracheal intubation (ETI)
- Collected and organized over 500 physiological data files related to stress response in ETI training
- Analyzed the change in performance and perceived workload in novices in ETI training

WORK EXPERIENCE

EHS Intern, Moog, East Aurora, New York

Summer 2023

- Inventoried locations of emergency exits, eyewash stations, fire extinguishers, notifier panels, and first aid kits across 11 buildings to ensure sufficient access to emergency resources
- Created over 30 emergency action plan maps in Microsoft Visio for high traffic areas, in compliance with OSHA standards
- Completed hand tool gembas throughout campus to reinforce proper tool usage, promote safety, and prevent FOD
- Facilitated communication and resolution of technicians' ergonomic and safety concerns with the EHS team

Cashier, Rite Aid, Lancaster, New York

Spring 2020 – Present

- Process 30 sales quickly and efficiently per day while verifying pricing is correct
- Communicate with 5 managers and 6 other cashiers to maintain store operations
- Provide positive customer service by greeting customers, answering their questions, and resolving any issues

Peer Mentor, SEAS Peer Mentoring Program, University at Buffalo, New York

Fall 2021 – Present

- Provide 7 first-generation engineering students with resources and advice for their first year of university
- Lead discussions with 10 other peer mentors to improve support systems for first-generation STEM freshmen

ACTIVITIES/CLUBS/HONORS

University at Buffalo Biomedical Engineering Society, Class Representative

Fall 2020 – Present

University at Buffalo Women in Science and Engineering, Member

Fall 2020 – Present

University at Buffalo Honors College, Member

Fall 2020 – Present

Tau Beta Pi, Member

Fall 2022 – Present

CERTIFICATIONS AND DIGITAL BADGES

CITI Program Certification, Human Research for Biomedical Research Investigators

Spring 2023

CRLA Peer Mentor Certification

Spring 2023

Community Engagement Digital Badge

Spring 2021

- Collaborated with 18 Honors College peers to investigate mental health and education in the Buffalo community
- Researched and engaged with 2 mental health organizations to address needs in the Buffalo area