BME Resume Sample

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# EDUCATION

## Binghamton University, State University of New York, Thomas J. Watson College of Engineering and Applied Science

## *Bachelor of Science in Biomedical Engineering | Biomedical Devices & Instrumentations Concentration May 2023*

**Cumulative GPA**: 3.XX/4.00 | **Dean’s List**: Fall 2021 *–* Spring 2023

**Relevant Coursework**: Biomedical Modeling, Biomedical Instruments, Bioimaging, Biomechanics, Biomaterials

# TECHNICAL SKILLS

**Software**: C, R, Mathematica, MATLAB, PTC Creo, Solid Edge, Softplan, MS Office, Google Workspace

**Hardware**: Oscilloscope, Light Spectroscopy, Cell Culture (Mammalian), PowerLab A/D Converter, EMG/ECG, Soldering

**Certifications**: Introduction to CAD, Introduction to Python, Project Management Professional (PMP), Leadership Essentials

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# PROFESSIONAL EXPERIENCE

**Regeneron,** *Pharmaceuticals Purification Development Intern* ***|*** Tarrytown, NY *May 2023 – August 2023*

* Conducted comprehensive evaluation of mixed-mode chromatography for integration into a monoclonal antibody platform, enabling advanced research on monoclonal antibody therapy for cancer treatment
* Performed calculations on loading capacities and utilized column packing for purification development advancements
* Delivered a comprehensive overview of the downstream purification process, highlighting the significance of polishing chromatography and membrane unit operations, during a presentation to the Pre-Clinical Manufacturing and Process Development Department

**Eco-Business Consulting,** *Consultant* **|** Binghamton, NY*September 2020 – May 2021*

* Designed a zero-waste landfill model for The Bagel Factory in Binghamton, NY by converting inventory to 100% compostable materials which resulted in a 10% increase in profitability of the company’s business model
* Implemented a functional greenhouse for hydroponics and composting by managing a team of four members through research and development and working closely with the head of food services at Binghamton University
* Devised a comprehensive package for other small businesses seeking to become sustainable with a $2,000 budget

# RESEARCH EXPERIENCE

**Stem Cell Research,** *Undergraduate Research Assistant**September 2021 – Present*

* Research the difference between stem cells and specialized cell types to discover practical application of differences
* Assist in the bioprinting and biofabrication of human pancreatic islets from pluripotent stem cells for the purpose of advancing biomanufacturing
* Attended the 3rd World Congress of Cell Science & Stem Cell Research in Baltimore to present a research poster on the “Global Assessment of Stem Cell Science and Engineering”

# PROJECT EXPERIENCE

**Brain Candy Capstone Design Project,** *Team Member* *August 2023 – May 2023*

* Promoted STEM activities and development of fine motor skills for children grades three through eight while using a candy-based anatomy game
* Modeled organ-shaped molds for gummy candy creation to 3D print using Fusion 360
* Performed mechanical and choking risk testing on gummy candy to ensure safety of chewing and ingestion for children

**LEADERSHIP EXPERIENCE**

**Biomedical Engineering Society,** *Vice President**August 2022 – Present*

* Organize collaborative graduate student/alumni panels specifically for biomedical engineering, biology, and chemistry students interested in pursuing an advanced degree in biomedical engineering
* Volunteer at the Broome County River to clean and sort through large amounts of trash and learn about the dangers and effects of pollution
* Attended the 2021 BMES Annual Meeting in Florida to learn from professionals and other students about cutting-edge research in BME, and staffed a booth to showcase the club’s semester project, “Project in a Box”

**Binghamton University Admissions,** *Tour Guide* *September 2021 – Present*

* Inform prospective students and parents about campus, the admissions process, academic offerings, and student life at Binghamton University during biweekly campus tours