Max Barletta

max.barletta02@gmail.com, (518) 776-8478, linkedin.com/in/max-barletta

EDUCATION

Bachelor of Science, Chemical Engineering, Expected May 2024, GPA: 3.99/4.00
University at Buffalo, The State University of New York

- Honors: Dean's List, Tau Beta Pi Member, 2021 Chemistry Scholarship Fund Award

Relevant Coursework:

- **Chemical Reaction Engineering** - Utilized chemical kinetics to model reactor equipment and determine input parameters to generate the maximum yield in both steady and transient state
- **Applied Mathematics for Chemical Engineers** - Implemented numerical methods to produce computational models for chemical engineering applications and statistical analyses

WORK EXPERIENCE

Reliability Engineer Intern, June 2023 - August 2023
Evonik Active Oxygens, Tonawanda, NY

- Improved safety by updating documentation for pressure safety valves & instrumentation in SAP
- Coordinated the emergency repair and modification of process-critical pneumatic control valve
- Developed safety operating procedure manual for lead room baghouse change

Waitstaff, September 2018 - February 2020
Coburg Village, Clifton Park, NY

- Interacted with customers daily and recommended items to meet preferences and dietary needs
- Ensured prompt and quality service was continually provided by regularly checking in with diners

PROJECTS

Biostatistics Analysis Research, *UB BERD Winter Institute for Biostatistics*, January 2023

- Designed and implemented tools in R programming to investigate health risk factors associated with the incidence of non-fatal heart attacks in a three-person team over three weeks
- Determined highest-risk associations based on a cohort study with more than 3,000 individuals

Translation Module for Pharmacology Analysis, *University at Buffalo*, September 2021 - May 2022

- Developed a translation module in R to streamline data migration from MRGSOLVE to NONMEM (C++ to Fortran) for a workbench built by Enhanced Pharmacodynamics
- Refactored contributions from team members to improve operations within a single package
- Organized and led biweekly meetings with sponsors to communicate team project status

Open Ended Modeling Problem Group Project, *University at Buffalo*, February - May 2022

- Produced a pool lift design that could support a maximum weight of 300 lbs without collapsing
- Derived calculations in a team environment to ensure the design was in static equilibrium at given points of operation where tipping would be most likely to occur

Biomedical Design Project, *University at Buffalo*, October - December 2021

- Worked in a team of four to design an at-home solution that allows patients to collect baseline measurements of micronutrient levels without requiring professional assistance
- Modeled the device through Fusion 360 and presented the 3D prototype to the class

SKILLS

Computer applications: Microsoft Office, Autodesk Inventor, Fusion 360, SAP
Programming languages: MATLAB, R, Java
Certifications: Lab Safety Etiquette (University at Buffalo Environment, Health, and Safety)