**MechE Resume**

 **(101)111-9999 | melfred@binghamton.edu | 11 Road Street Upstate, NY 13905**

**EDUCATION**

**Binghamton University, State University of New York, Watson College**  Expected May 20XX

Bachelor of Science in Mechanical Engineering

**GPA: 3.XX/4.00, Dean’s** List (3.5+ Required): Fall 20XX, Spring 20XX, Fall 20XX, Spring 20XX

**COMPUTER SKILLS**

PTC Creo, Matlab, Mathematica, LabView, Rockwell Arena, Minitab, Microsoft Office Suite

**ENGINEERING EXPERIENCE**

**SNC-Lavalin,** Syracuse, New York Summer 20XX

***Validation Engineering Intern***

* Examined packaging processes and critical process parameters for over 500 products on eight production lines
* Developed matrix of the critical process parameters for bottle and blister lines by interviewing production staff and reviewing documents using Microsoft Excel
* Streamlined validation process by determining the least amount of products to be validated for FDA compliance using the finished matrix
* Collaborated with other engineering, quality, and manufacturing personnel to determine pertinent quality concerns and inquire about possible issues with machinery

**Croghan Island Dam Restoration Project,** Binghamton, New YorkSpring 20XX

***Team Leader***

* Managed a multi-national team of four to evaluate and propose a conceptual safety update to the Croghan Island Dam
* Researched various technological solutions and innovations as well as regional information
* Proposed a final safety update to department professors and industry professionals in project exposition, receiving positive feedback and winning award for best safety update
* Scheduled and coordinated meetings to guarantee group efficiency and maximize time management in Microsoft Project

**Reverse Engineer and Product Design Projects,** Binghamton, New YorkAugust 20XX - May 20XX

***Team Member***

* Reverse engineered and redesigned a rice cooker in a team of four to resolve product flaws
* Utilized design processes and techniques such as Pugh and Pahl and Beitz evaluation matrices to determine best solution design
* Developed CAD models of original and redesigned product through the use of Solid Edge
* Collaborated in a different team of four to design and construct an Arduino Bike Jacket aimed at enhancing safety for cyclists
* Presented project at Watson Arduino Exposition; presented finished product to industry professionals, professors, and peers, winning awards for top product design and poster presentation

**LEADERSHIP**

**Engineers without Borders,** Binghamton, New York Fall 20XX - Present

***Local Projects Committee Member***

* Seek opportunities with organizations in Greater Binghamton Area to provide support in community outreach activities
* Collaborate with other Binghamton University clubs and organizations in the maintenance and construction of equipment, such as bike racks and deer fences
* Formulate, design, and implement projects that bettered the university and surrounding community

**Area-Wide Government, College in the Woods,** Binghamton, New York Fall 20XX – Present

***Secretary***, Fall 2011

* Generate minutes for executive board and area-wide meetings to ensure that all members are organized and informed
* Represent hall residents in expressing opinions on area-wide issues such as allocations of funds to outside groups, amendments to the community council constitution, and the voting of new members into the council
* Coordinate with other hall government members to provide a positive hall environment and a strong sense of community
* Manage food and wait staff for casino fundraiser night, raising $3,000 for charity

**Camp Ramaquois,** Schenectady, New York Summers 20XX – 20XX

***Lifeguard/Swim Instructor***

* Taught children ages 5-12 to swim in small group lessons and assessed different levels of swimming ability
* Created various instructional activities to keep the children focused, motivated, and constantly improving
* Managed other lifeguard’s shift schedules to maintain high pool safety standards
* Engaged in various operational activities such as: testing for proper chemical levels, opening and closing the pool, maintaining a safe the environment around the pool

**INTERESTS**

* Distance Running, Travel, Current Events, Cooking