Joanna M. Carroll

Permanent Address: 1117 E. 6th Ave.

Houghton, MI 49931

E-Mail: carro184@msu.edu

Temporary Address: 2721 Hannah Blvd, Unit 5412 East Lansing, MI 48823 (906) 370-8495

Education

Michigan State University, East Lansing, MI

College of Engineering • B.S. Biosystems Engineering Honors College • Cumulative GPA: 3.79/4.00 • Dean's List Expected Graduation: May 2017

Employment and Experience

Kellogg Global Engineering Intern

Pringles Manufacturing Facility · Jackson, TN

May 2016 - August 2016

- Recorded, tracked, and analyzed daily data relating to line outputs to provide performance parameters for production lines
- Gathered and facilitated data collection related to oven operating conditions to provide a better understanding of the bakery environment in order to provide justification for changes in the area
- Facilitated work to transform available manual data to automatically recorded data to provide key stakeholders with line performance information

Nestlé Nutrition Research & Development Process Engineering Intern

January 2015 – August 2015

Product Technology Center Fremont · Fremont, MI

- Obtained time management skills by contributing to multiple engineering projects in a pilot plant and research and development setting
- Gained experience working as a capital project manager leading a cross-functional team responsible for assessing and upgrading pilot scale Cleaning in Place (CIP) Equipment
- Facilitated a project involving engineering audit preparation to support Nestlé compliance by generating data, writing standard operating procedures, and assessing equipment as evidence under topics of pressure systems, retorts, maintenance and explosive atmospheres

Undergraduate Research Assistant

September 2013 - Present

Biosystems Engineering Food Safety Pilot Plant and Laboratory, Michigan State University, East Lansing, MI

- Assisted faculty and graduate students with research projects related to modeling the thermal inactivation and transfer of *Salmonella* and other pathogens in a Biosafety Level 2 environment
- Gained experience working with pilot scale equipment and bench top experiments, running experimental trials individually and on a team, and working with dry food matrices, including flours and nuts
- Presented individual research (Michigan State University Undergraduate Research and Arts Forum (UURAF)
 2014 & 2016) and group research (International Association of Food Projection (IAFP) Annual Meeting –
 2015 & 2016)
 - Undergraduate Poster Presentation Competition Finalist at IAFP 2015 (2nd Place Overall)

Michigan State University Product Development Team

July 2014 – July 2015

IFTSA & Mars Product Development Competition 2015 finalist (2nd Place overall)

- Worked as a team to design an innovative food product by developing a process-ready recipe that
 considered all aspects of the product, including sensory, marketing, and technical problem solving
- Designed critical components of the project including the process flow diagram, product sustainability specifications, and the floor plan of equipment

Other Activities and Awards

• International Association for Food Protection Student Member

June 2015 – Present November 2014 – Present

• Tau Beta Pi Member, Honors Engineering Fraternity

November 2015 – Present

Institute of Food Technologists Student Member

June 2015 – June 2016

• Biosystems Engineering Club Member

Treasurer

September 2013 – May 2016

 College of Agriculture and Natural Resources Research Scholarship Award (\$2,000.00) August 2015 – December 2015

• Michigan State University Study Abroad Program

May 2014

- which igain state onliversity study Abroad Program
 - Studied International Food Law in England, France, Switzerland, and Italy
- Michigan State University Alternative Spartan Breaks
 Participant (April 2014) and Situation (April 2014).

April 2014 & April 2016

Participant (April 2014) and Site Leader (April 2016)

Multivariable Calculus with Technology Academic Achievement Award

August 2013