
Madeline LaBelle

Permanent Address: 4082 Tuxedo Dr. Warren, MI 48092

label12@msu.edu

Cell: (586) 219-9756

EDUCATION

Michigan State University, College of Engineering

B.S. Biosystems Engineering, expected May 2017 – Cumulative GPA: **3.26**

Major: Biosystems Engineering

Minor: Music - Harp Performance

Relevant Coursework: Fluid Mechanics, Statics, Thermodynamics, Organic Chemistry, Heat & Mass Transfer, Physics, Microbial Systems Engineering, Calculus 1-4, Engineering Modeling, Cells & Molecular Biology, Engineering Analysis of Biosystems, Biosensors for Medical Diagnostics, Engineering Properties of Biological Materials, Engineering Design & Optimization of Biological Systems, Electric Power and Control

WORK EXPERIENCE

Perrigo Company

May 2016 – August 2016

Cleaning Engineering Intern

- Developed cleaning trial protocols for multiple pieces of equipment to improve safety, reduce water usage and decrease cleaning time
- Collaborated with engineers to reduce detergent concentration of a major equipment clean as part of an initiative to reduce pH levels in waste-water
- Completed Lean Sigma Yellow Belt Certification

The Facility for Rare Isotope Beams at MSU (FRIB)

November 2015 – Present

Beam Diagnostics Student Research Assistant

- Work tasks include assisting group members with research, collecting and analyzing data, and communicating analysis and research results to group members in written and oral presentation formats
- Developed MATLAB programs to map Beam Position Monitor data and fit data to multiple polynomials to analyze accuracy of BFM measurements and adjust future data

Bostocks Organic Chicken – Internship Abroad, New Zealand

June 2015 – August 2015

Operations Engineering/ Farm Intern

- Streamlined processes and eliminated down time at production packaging facility
- Collaborated with a team to research and design methods to eradicate pest infestation on farm. Using multiple techniques, the team was able to reduce the rat population by approximately half
- Performed a variety of animal raising duties

LaBelle Enterprises

May 2009 – May 2015

Tool Manufacturing

- Primary responsibilities included quality control, assembly, and distribution of product
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RELEVANT SKILLS AND RESEARCH PROJECTS

Environmental Design Project – Costa Rica

Student Team Leader

Led the solar-heater and biogas usage development team in the design/build phase, to further develop the technologies of coupled solar-assisted bio-digesters and treatment wetland systems for advancement of the Shuabb community, in Costa Rica

Skills

Proficient in programing languages: MATLAB, Java, Solidworks, Microsoft Office (Excel, Powerpoint, Word)

EXTRACURRICULAR ACTIVITIES

Member of engineering sorority Phi Sigma Rho, Standards Board Member

Member of American Harp Society

Study Abroad

May 2015

Studied topics of agriculture and environmental sustainability at Massey University in New Zealand
