

Elizabeth Hoekstra

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SUMMARY

Senior Chemical Engineering student with three internships and project experience. Looking for an internship for Summer 2020.

EDUCATION

Michigan Technological University | Houghton, MI

BS in Chemical Engineering

Expected May 2020

GPA: 3.87 | German Minor | Astrophysics Minor

MS in Chemical Engineering

Expected May 2021

Relevant Courses: Organic Chemistry, Process Design, Technical Communications,
Thermodynamics, Transport, Unit Operations Laboratory

ENGINEERING EXPERIENCE

Process Engineering Intern | Novelis | Oswego, NY

May 2019 – Aug 2019

Project: Increase Oil Percent in Waste Sent to Onsite Contractor

- Worked with onsite contractor to identify problems
- Modified lab procedure and analyzed samples
- Wrote procedural instructions for operators based on findings

Mechanical Design Engineering Intern | Fogg Filler | Holland, MI

May 2018 – Aug 2018

- Created P&IDs in DraftSight and SolidWorks parts for bottle filling machines
- Adjusted SolidWorks assembly models to accommodate lower level machine changes
- Investigated previous machine models and P&IDs to update records

Process Control

Feb 2018 – Apr 2018

Project: Design a Feedback System to Control pH

- Designed, budgeted, and built experimental setup run by servo motors
- Coded servo motors and pH sensor in LabVIEW and Arduino

Manufacturing Engineering Intern | Flex | Coopersville, MI

Jun 2017 – Aug 2017

Project: Create Safety Documentation for the Lockout-Tagout Program

- Identified energy sources and correct lockout methods for every machine
- Consulted Engineers, Technicians, and Line Workers about potential problems with locking out a machine
- Produced comprehensive documentation and presented to the Plant Manager

COMPUTER SKILLS

- | | | | | |
|----------|-------------|-----------|------------|--------------|
| ▪ COMSOL | ▪ Excel/VBA | ▪ Java | ▪ MATLAB | ▪ DraftSight |
| ▪ UniSim | ▪ Minitab | ▪ LabVIEW | ▪ Simulink | ▪ SolidWorks |

LEADERSHIP and CO-CURRICULAR INVOLVEMENT

- | | |
|--------------------------------------|---------------------|
| ▪ Process Control Teaching Assistant | Jan 2019 – Apr 2019 |
| ▪ Tau Beta Pi President | Apr 2018 – Present |
| ▪ Omega Chi Epsilon Secretary | Nov 2017 – Present |
| ▪ MTU Swing Dance Club Instructor | Sep 2016 – Present |
| ▪ AIChE | Sep 2018 – Present |

INTERESTS

Dancing | Astronomy | Running | Broomball | Singing | Cello | Skiing | Doctor Who