

1000 Heaven Blvd.
Your Town, MI 48888

Susie Student, EIT

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SUMMARY Recent graduate with BS in Chemical Engineering. Extensive hands-on, industry based experience, strengths in process design, sustainability, and project management; as well as leadership experience, seeking a full-time position.

EDUCATION

Michigan Technological University

Houghton, MI

BS Chemical Engineering | Enterprise Minor | GPA: 3.44

May 2016

Study Abroad | Seoul National University of Science & Technology | Seoul, South Korea | Summer 2015

ENGINEERING PROJECT EXPERIENCE

Caterpillar Wheel Tractor Scraper Team – Consumer Product Manufacturing Enterprise (CPME)

Objective- To develop a bowl optimization solution that informs operator the amount and progression of dirt collected in the front end loader bowl. Sep 2015 - Present

- Project lead for multidisciplinary team of 7 students from 2 different Enterprise programs
- Conceptualized potential laser and ultrasonic sensors systems for display in operator's cab
- Analyzed existing bowl 3D models to determine best placement for sensor equipment
- Constructed testing apparatus and filling model to test and prove sensor accuracy
- Wrote and edited successful project proposal to enter SWE Team Tech Competition

AFI RAK Charcoal Kiln Team – CPME

Objective- To design, test, and produce a prototype for a charcoal kiln to be used in a manufacturing line for mass production and distribution in **Benin, Africa**. Jan 2014 – May 2015

- Remotely identified regional materials to construct the kiln and reusable biomass for charcoal production.
- Simulated production times based upon thermal properties of biomass options to inform design.
- Calculated necessary cool down times between batches using thermodynamic equations.
- Designed multiple kiln prototypes using Unigraphics NX 3D modeling software.
- Created crowdfunding campaign and drafted promotional literature to progress project.

Kimberly Clark Material Folding Board Team – CPME

Objective- To reduce heat buildup in a material folding process on a manufacturing line through cooling, low friction coatings, and material inserts. Aug 2013 - Jan 2014

- Evaluated materials that have high hardness, smoothness, and heat capacity.
- Contacted specialty part manufacturers to procure samples for testing in real time.
- Tested each material using friction testing mechanism.
- Collected and analyzed data from multiple trials of friction testing to determine optimum material.
- Modeled possible material inserts using Unigraphics NX 3D Modeling software.
- Presented a final report and offered recommendations to Kimberley Clark manufacturing management.

LEADERSHIP AND AWARDS

Vice President | **Secretary** | Consumer Product Manufacturing Enterprise (CPME) - 6 Semesters

Treasurer | **Historian** | Society of Women Engineers (SWE), 2012-2016

- **Collegiate Leadership Institute Participant**, National SWE Conference, 2015
- **Outstanding First Year Student Scholarship**, MTU Society of Women Engineers, 2012 - 2013

COMPUTER SKILLS

- C++
- MATLAB
- Mathematica
- Siemens Unigraphics NX
- Unisim Design R410
- Comsol Multiphysics
- Microsoft Office Suite
- Microsoft Visio
- Polymath Equation Solver
- Nalco 3D Trasar Unit
- DeltaV Process Control
- Control Station – Loop Pro

WORK EXPERIENCE

Test Proctor, Ford/UAW Industrial Readiness Certificate Program (IRCP), Schoolcraft College July 2016

Intern, MTU Career Services - 15 hours per week Aug 2015 – May 2016

Student Staff Assistant, MTU Career Services - 25 hours per week May - Aug 2015

Seasonal Caretaker for Plymouth Township Recreational Parks May 2013 - Sept 2014