LAUREN BILBO

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EDUCATION

UNIVERSITY OF MICHIGAN — **Ann Arbor, MI**
College of Engineering
B.S.E Electrical Engineering, May 2016
- GPA: 4.0/4.0
- International Minor
- Engineering Global Leadership Honors Program Fellow
- Tau Beta Pi Engineering Honor Society Active Member
- Eta Kappa Nu Engineering Honor Society Active Member
- Honors: Tau Beta Pi First Year Award, University Honors and Dean's List

UNIVERSITY OF SALAMANCA — **Salamanca, Spain**
Study Abroad Program, Summer 2013
- Completed coursework in Spanish language, Spanish business, and Spanish economy with other international students

EXPERIENCE

2014-Present — **D.C. COOK NUCLEAR POWER PLANT** — **Buchanan, MI**
Summer — **Electrical Engineering Design Intern**
- Analyzed plant electrical system by modeling impedance and ampacity of cables with ETAP power system analysis software
- Performed short circuit and voltage drop analyses using ETAP software to determine the loading requirements of power system components

2013-Present — **SOCIETY OF WOMEN ENGINEERS (SWE)** — **Ann Arbor, MI**
Engineering Career Fair Director, 2014-Present
- Co-lead planning, operation, and publicity of Fall 2014 Career Fair and managed two committees that organized student volunteers and corporate receptions
- Interfaced with 300 companies attending the fair to coordinate registration, sponsorship, and logistics on the days of the career fair

Social Chair, 2013-2014
- Organized monthly social activities designed to create a strong support network for women engineers within SWE and within the larger university community
- Directed a subcommittee to plan a charity concert, raising over $500 for the Make-A-Wish Foundation

2013-2014 — **MICHIGAN RESEARCH COMMUNITY (MRC)** — **Ann Arbor, MI**
Peer Mentor
- Hosted two community service events for freshmen in the MRC living community
- Facilitated a Spanish language study group to cultivate students' speaking skills, using interactive exercises that I developed to engage participants in conversation

2013 — **CENTER FOR ULTRAFAST OPTICAL SCIENCES, UM** — **Ann Arbor, MI**
Research Assistant
- Designed and built an optical setup to be used in experiments investigating the presense of parametric down-conversion of light scattered off of gold nano-rods

2012-2013 — **UM NUCLEAR ENGINEERING DEPARTMENT** — **Ann Arbor, MI**
Research Assistant
- Enhanced an optical setup used to acquire baseline measurements of gas clusters for future research in laser-plasma interaction
- Analyzed experimental results in varying conditions using optical techniques to determine the optimal trigger timing for ideal cluster formation

ADDITIONAL

- Programming Languages: C++, Matlab, HTML (basic)
- Foreign Languages: Spanish, advanced proficiency
- Society of Women Engineers Career Fair Committee Chair
- Volunteer Abroad in New Delhi, India, August 2014
- Built a web application at MHacks Hackathon, September 2014
- Fasciated by learning other languages and exploring other cultures

Cameron McBride

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Permanent Address
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Objective: To obtain an internship to gain experience in industry before going on to a PhD program.

EDUCATION

University of Michigan — Ann Arbor, MI
- **GPA 3.94/4.0**
- Mechanical Engineering, Graduating May 2015
- Minor in Electrical Engineering and German Language

Technische Universität Berlin — Berlin, Germany
Study Abroad — Summer 2012
- International laboratory experience—wood gasification project

EXPERIENCE

3M Company — May 2014—present
Research and Development Intern—Corporate Research Process Lab
- Study, model, and test stress relaxation properties of acrylic based adhesives for double-sided tape using Arrhenius and WLF models for different temperatures and adhesive molecular weights.
- Made a significant contribution to the understanding of the mechanics behind the problem

University of Michigan — Apr 2013—present
Research Assistant with Professor Ellen Arruda
- Designed and implemented a new material testing setup using ultrasonic waves; fabricated and optimized new materials; conducted material properties testing on new materials

University of Michigan Instructional Support Services — Sept 2011—Apr 2013
Media Assistant and Student Shift/Project Manager
- Trained new employees (>35) and led student employee operations for classroom media support

LEADERSHIP

Tau Beta Pi (TBP) Engineering Honors Society
External Vice President — Dec 2013—present
- Coordinate interview committees to select scholarship winners for Leaders and Honors awards
- Organize Fall 2014 SWE/TBP Career Fair including all logistics, operations, and finances

Corporate Relations Officer and Professional Development Lead — Apr 2013—Dec 2013
- Coordinated information sessions and events with corporate representatives
- Point person for communication with companies interested in recruiting members

SWE/TBP Career Fair — May 2013—Sept 2013
Operations Committee
- Organized all operations for the SWE/TBP Career Fair, including parking, shipping, and logistics

Society of Women Engineers (SWE) — Dec 2012—July 2013
Summer Engineering Exploration Camp Logistics Officer
- Coordinated activities for 50 high school students interested in engineering. This included organizing tours, transportation, engineering design challenges, and food arrangements for one week.

PROJECT

Mechanical Engineering 350 Project — Jan 2013—Apr 2013
- Designed and created a mechanism in a team to move a backpack from the back of a wheelchair to the side to assist individuals in a wheelchair

ADDITIONAL

- Proficient in C++, Matlab, Simulink, Solidworks, NX8, Mathematica, MS Office
- James B. Angell Scholar, Dean's list, University honors, recipient of the Lloyd Donnell scholarship for excellence in Engineering Mechanics, 2013 & 2014 University of Michigan Merit Award Scholarship recipient

ALYSSA WOO

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Objective

Seeking an internship where I can apply my skills in chemical engineering and/or computer science.

Education

University of Michigan — Ann Arbor, MI
B.S.E. in Chemical Engineering Winter 2016, Minor in Computer Science — Sept. '12 – present
GPA: 3.749/4.000

Work Experience

Chemical Engineering Department — Ann Arbor, MI
Materials & Energy Balances (CHE230) Tutor — Sept. – Dec. '14

- Aid sophomore students in Chemical Engineering understand concepts in Materials & Energy Balances by holding weekly office hours and meeting one-on-one by appointment

The Procter & Gamble Company — Cincinnati, OH
Baby Care Research & Development Intern — May – Aug. '14

- Led design of 3 extrusion lamination trials with supplier
- Led development and validation of tensile strength model for extrusion laminates based on raw material strength and leveraged this model to design optimized design of experiments for third supplier trial
- Identified consumer relevant performance measures and utilized these insights to identify a range of laminates to be used for consumer testing
- Delivered recommendation for overlapping fastening tape to be tested for consumer acceptance, while still delivering expected cost-savings

The Procter & Gamble Company — Cincinnati, OH
Supply Network Operations Intern — May – Aug. '13

- Created and managed implementation and analysis of vendor-based survey to determine operational partnership to 90 vendors with a total spend of over $800 million
- Analyzed, consolidated & catalogued global capability database; created user-friendly access to critical documentation for work processes, benchmarking & training
- Created communication platform to increase overall organization & productivity, and trained regional users on how to access and customize
- Developed a tool to support comparison of organizational training protocols and required qualifications to identify gaps

Michigan Research Community — Ann Arbor, MI
Study group leader — Sept. '13 – Dec. '13

- Facilitate weekly study groups for Introduction to Computers and Programming for 32 students in the Michigan Research Community and Women in Science and Engineering Residence Programs

University of Michigan Medical School — Ann Arbor, MI
UROP Research Assistant, Dr. Ptaschinski Laboratory — Sept. '12 – Dec. '13

- Aimed to better understand mechanism by which respiratory syncytial virus (RSV) drives Th2 response in lungs in order to identify target for potential therapeutics

Leadership Experience

Tau Beta Pi – Michigan Gamma
External Vice President (2014)

Society of Women Engineers
Member Outreach Co-chair (2014-2015), Community Relations Co-chair (2013-2014), SWE/TBP Career Fair Publicity Chair (2013), Summer Engineering Exploration Camp Communications Officer (2012-2013)

Language

Intermediate French

Honors

Goldman Sachs SWE Scholarship (2014), Amy Ellen Polk Merit-based Scholarship (2013), Intel SWE Scholarship (2013), University of Michigan Regents Merit Scholarship (2012)

Sarah Yaqub

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EDUCATION

University of Michigan, Ann Arbor, MI
B.S.E. Mechanical Engineering December 2015
GPA: 3.3/4.0

EXPERIENCE

Stryker Spine R&D Intern, Allendale, NJ — May 2014-August 2014

- Collected and organized Voice of Customer information through surgeon visits, gaining insight into early stages of design
- Conducted validation labs with surgeons to ensure instrument met all required User Needs prior to product launch
- Verified instrument design and safety requirements through development of test strategy/protocols, testing, and reports
- Conducted design reviews during new product development with cross-functional team as a part of design control process
- Analyzed tolerance fits of mating parts to verify instrument design intents
- Completed Anterior and Posterior Cervical Spine Training through a cadaveric, hands-on, course

Toyota Motor Engineering & Manufacturing (TEMA) Co-op — May 2013-December 2013

Engineering Design Chassis (EDC), Saline, MI — *May-August*

- Collaborated with leaf spring supplier to improve rear suspension spring rate, and presented findings to department
- Organized and conducted a Team Member usability survey to benchmark competitor spare tire carrier systems
- Issued CATIA drawings for 2015 Tundra brake tubes and 2015 Sienna front and rear suspension assemblies

Materials Engineering Division (MED), Ann Arbor, MI — *September-December*

- Facilitated discussions with three suppliers to strengthen their capability for localization of motor insulation material
- Compared Toyota test methods to supplier methods to gauge Toyota's specifications against current market
- Created operating procedures for new test methods, and tested enamel thickness uniformity of supplier magnet wire
- Filtered data to create technical report of 20 benchmarked catalysts to compare Toyota's strategy to competitor OEMs
- Completed Beginner 1 and 2 Japanese language class to enhance communication with diverse staff

ADDITIONAL WORK EXPERIENCE

Ann Arbor Hands on Museum Public Programs Presenter, *Ann Arbor, MI* — *September 2014-Present*

- Supervising and facilitating activities in the Preschool Gallery

LEADERSHIP

Society of Women Engineers (SWE), Ann Arbor, MI — September 2011-Present

Career Fair Director: 30th Annual SWE/TBP Career Fair — *December 2013-Present*

- Organized and managed the attendance of 300 companies on campus to assist 3000 engineering students in finding jobs

Diversity and Culture Officer — *May 2014- Present*

- Connecting SWE with various groups/resources on campus to promote open, respectful, and educated communication

Scholarship and End of Year Banquet Officer — *September 2013-Present*

- Organized and hosted a banquet of 90 guests, including students, staff, alumni, and corporate recruiters
- Raised money and presented 32 SWE members with collegiate scholarships

Community Relations Co-Chair — *August 2012-May 2013*

- Engaged members with our Ann Arbor community by hosting three community service events per semester
- Lead, organized, and publicized the Fun Run race, a charity 5K of 100 runners to benefit Mott Children's Hospital

ACTIVITIES

Own-It — January 2014-Present

- Spoke as a panelist to the Engineering Academic Council to integrate social justice education into our curriculum
- Planned mental wellness information sessions, introducing students to helpful resources on campus

Arabesque — January 2012-Present

- Practiced and performed traditional Arabic dance, dabke, on campus

University of Michigan Women's Rugby Team (UMWRFC) — December 2011- December 2012

- Nominated by coaching staff for the All-American Collegiate Team

Detroit Partnership — December 2011- April 2012

- Tutored five elementary school students weekly in Reading, Math, and English
- DP Day Site Leader: Managed nine volunteers in repairing, cleaning, and painting an old building

Daphne Chou

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OBJECTIVE

Seeking internship in Biomedical Engineering for summer 2015.

EDUCATION

University of Michigan, Ann Arbor, MI — May 2015
Bachelor of Science, Biomedical Engineering
G.P.A. 3.89/4.00; Concentration: Biomechanical Engineering
Coursework: Thermodynamics, Circuits, Statistics, Biomechanics, Undergraduate Lab, Biomedical Instrument Design, Ergonomics, Intro to Fluid Mechanics

PROFESSIONAL EXPERIENCE

Minnetronix, Inc., St. Paul, MN — June 2014 – August 2014
Quality Engineering Intern

- Independently designed automated visual inspection system using LabVIEW
- Integrated camera hardware and software to inspect products in manufacturing at Final QC
- Interacted with vendors to select camera hardware based on application

"Design Your Engineering Experience" Department Ambassador — Fall 2014

- Led semester-long discussion session for 18 freshmen engineering students
- Assisted in planning curriculum to engage and challenge students

College of Engineering Peer Advisor — June 2013 – May 2014

- Supervised incoming undergraduate engineering students through orientation
- Provided guidance and support during the transition from high school to college
- Developed effective communication skills between individuals and large groups

TEAMWORK EXPERIENCE

Michigan Concrete Canoe Team — Sept. 2012 – Present
Secretary

- Responsible for overseeing short-term and long-term team logistics
- Served as team's compliance chair to ensure adherence to rules and regulations
- Oversaw creation of Engineer's Notebook and display

Biomedical Undergraduate Design Project — Winter 2014

- Investigated relationship between sleep deprivation and response to physical and mental stimuli
- Designed and built circuit to measure heart rate as indicator of the body's response to stimuli, data acquired using LabVIEW
- Used statistics to determine significance from data

SKILLS

Computer: Windows, Microsoft Office, SPSS Statistics
Languages: LabVIEW, Basic proficiency in C++, Matlab

AWARDS

Dean's List — Fall 2012, Winter/Fall 2013, Winter 2014
College of Engineering Merit Award — August 2013
Tau Beta Pi Centennial Award — September 2013

ACTIVITIES

University of Michigan Concrete Canoe Team — September 2012 – Present
College of Engineering Peer Advisor — June 2013 – May 2014
Tau Beta Pi Engineering Honor Society — December 2013 – Present
Engineering Student Ambassador — September 2014 – Present
2014 SWE/TBP Career Fair Chair — August 2014 – Present

Becca Cohn

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EDUCATION

University of Michigan; Ann Arbor, MI
Current GPA: 3.835/4.0
B.S.E. in Materials Science and Engineering
Expected Graduation: April 2017

MSTEM Academy Scholar: A two-year program for select engineering students that begins with a 6-week pre-freshman program that focuses on fostering academic, personal, and professional success.

SKILLS

- Proficient in Microsoft Office
- Beginning/Intermediate level Spanish
- Certified by the Wilson Project Team Center for Basic 1 & 2
- Basic C++, Matlab, and GameMaker knowledge

EXPERIENCE

Michaels, Cashier June 2012—Present

- Manage monetary transactions and sign off on bookkeeping records
- Boost the collection of customer emails
- Provide exemplary customer service and guide customers to merchandise

Mark Blake - Head Decorator and Chef Garde Manger

Baking and Decorating Apprentice May 2014—August 2014

- Created a groom's cake, wedding cake, and themed cakes
- Improved piping and gum paste decorating techniques

ACTIVITIES & AWARDS

Society of Women Engineers (SWE) Nov. 2013—Present

Receptions Committee Chair for the Fall 2014 Career Fair

- Plan and organize the premier networking event for the College of Engineering
- Persuade over 100 companies to send recruiters to attend special networking events

Jewish Engineering Association (JEngA) Sept. 2013—Present

Social and Religious Chair

- Coordinated professional development programming to engage upperclassmen
- Collaborate with chapter leaders, faculty and Hillel Alumni to plan events

Undergraduate Research (UROP) Sept. 2013—April 2014

Researcher in Dr. Steven P. Schwendeman's Biomedical Laboratory with PhD candidate Rae Sung

Project: "Self-encapsulating PLGA microspheres for sustained release of antibodies"

- Isolated Fab fragments from Avastin® for wet AMD treatment
- Proved cultivation of Fab fragments was possible through 90 hours of research

University of Michigan College of Engineering Dean's List Fall 2013 & Winter 2014

Girl Scout Gold Award Nov. 2012

- Designed and implemented a project to educate children about healthy living

Leo P. Devota

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EDUCATION

University of Michigan: College of Engineering — **Ann Arbor, MI**
B.S.E in Chemical Engineering 2015
GPA 3.89/4.00

- College of Engineering Honors Program
  Focus Area: Entrepreneurship

WORK EXPERIENCE

BASF — **Wyandotte, MI**
Technical Services Intern
Summer 14

- Named as an inventor on pending US patent application pertaining to novel UV absorber-hindered amine light stabilizer formulations in candle wax
- Formulated BASF antioxidants into base paraffin waxes and evaluated color development changes after thermal and UV exposure

Summer 13

ALCOA Howmet Thermatech — **Whitehall, MI**
Process Engineering Intern

- Generated ~$300k annual savings by improving platinum reclaim system through system pH, temperature, and fluid movement optimization
- Protected $3M in continued business by developing new chrome based coating technique for turbine blades

Oct 12 – May 14

University of Michigan Dept. of Chemical Engineering — **Ann Arbor, MI**
Research Assistant, Professor Burns Laboratory

- Fabricated novel microsensor to calculate the flow rate of a fluid based solely on the rate a heated sensor is cooled in order to collect data in fixtures
- Created and maintained electronic inventory in order to improve the safety and awareness of specific chemicals within the lab
- Designed and prototyped microsensor sensor cap using CAD software and 3D printing techniques

GROUP EXPERIENCE

Tau Beta Pi Engineering Honors Society — **Ann Arbor, MI**
Secretary (previously Corporate Relations and Intersociety)
Jan 13- Present

- Organized MLK, Jr. Luncheon Series to provide a forum where students, faculty, and staff can discuss current social issues on campus
- Coordinated social events with 75+ people between multiple student groups on engineering campus

Jan 14 - Present

SWE/TBP Career Fair Chair — **Ann Arbor, MI**
Hospitality Chair

- Coordinated refreshments and lunches for ~ 300 companies (~1000 people)

ADDITIONAL

BP Ultimate Field Trip Competition National Champion
BASF Summer Intern Challenge Winner
Dept. of ChE Bartus Scholar, Shipman Scholar, BP Industrial Scholar
AIChE, member, Fall 12
OXE, member, Fall 13
Intramural Sports: Beach Volleyball, Basketball, Flag Football, Soccer, Floor Hockey

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NATALIE S. EYKE

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Caledonia, MI 49316
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OBJECTIVE Seeking a full-time position in Chemical Engineering. Available January 2015

EDUCATION

The University of Michigan, *B.S.E. in Chemical Engineering, GPA 3.94/4.00* Graduation: December 2014

WORK EXPERIENCE

Eli Lilly & Company, *Process Development Intern* Indianapolis, IN
May 2014 to
August 2014

- Designed experimental setup and protocol to validate novel membrane unit operation
  - Performed experiments which demonstrated the superiority of the membrane over existing process technology
  - Evaluated potential for scale-up and created installation plan
- Applied knowledge of mass transfer kinetics to simulate membrane performance
  - Used simulation to estimate solubility of gases in solvents and solvent mixtures

The Dow Chemical Company, *Manufacturing & Engineering Intern* Baton Rouge, LA
May 2013 to
August 2013

- Diagnosed malfunctioning pumps
  - Hypothesized that malfunction was caused by insufficient cooling of seal fluid
  - Identified insulation material and thickness necessary to deliver MRU water to pump seal pots at the appropriate temperature
  - Supervised insulation installation and managed scope changes
- Recommended pipe size adjustments by generating models of process flow
  - Developed expertise in new modeling software and coached my department on its usage
  - Collaborated with diverse teams to introduce related modeling programs to my department
  - Developed installation plan that was approved for turnaround documents

Procter & Gamble, *Research & Development Intern* Cincinnati, OH
January 2012 to
August 2012

- Reverse-engineered six outsourced Fekkai shampoo formulas
  - Enabled in-house manufacturing of Fekkai shampoos
  - Saved $1.4MM by eliminating heritage raw materials
- Identified key shampoo/conditioner interaction explaining negative consumer reaction to shampoo/conditioner pairings
  - Applied Six Sigma tools (Design of Experiment and TQM methods) to investigations
  - Utilized advanced knowledge of JMP software to generate sampling plans and analyze data

The University of Michigan Ann Arbor, MI

Research Assistant, explored consolidated bioprocessing to improve biofuel efficiency 2013

Physics Study Group Leader, designed lesson plans to facilitate collaborative learning 2011

LEADERSHIP EXPERIENCE

Tau Beta Pi – The Engineering Honor Society, University of Michigan Chapter

- President, 2014
  - Developed new recruiting programs & created a vertically-integrated leadership structure
- External Vice President, 2013

SWE/TBP Career Fair at the University of Michigan

- Director, 2013
  - Controlled a $250,000 budget, managed twenty direct reports, and coordinated over a thousand volunteer hours in order to host the second-largest student-run career fair in the nation
- Operations Chair, 2012, 2014

Society of Women Engineers, University of Michigan Section

- Community Relations Co-chair, 2012-13
- Membership Officer, 2011-12

Women in Science & Engineering Residence Program, Peer Mentor, 2011-13

M. Hayden Guerra

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Objective Obtain a Chemical Engineering Internship for Summer 2015

Education

University of Michigan Ann Arbor, MI
B.S.E. in Chemical Engineering April 2016
GPA: **3.96**/4.0

Relevant Classes
+Chemical and Engineering Thermodynamics +Fluid Mechanics
+Separations Processes +Heat and Mass Transfer

Experience

Par Pharmaceutical Rochester, MI
Validation/Technical Service Student Consultant Summer 2014

- Constructed a database that includes 155 equipment pieces, catalogues equipment measurements, and calculates surface area for each piece of equipment
- Created, using Microsoft Excel Developer tools, an interactive Spreadsheet that has equipment train lists/forms for each of the company's 58 manufactured products
- The form allows a user to choose what manufacturing equipment pieces need cleaning; form automatically sums chosen equipment surface areas; sum is used to determine minimum amount of cleaning agent needed to sterilize equipment pieces
- Produced tutorial videos that explain to Technical Service team how to effectively maintain/update the database and utilize the interactive spreadsheet

Troy Family Aquatic Center Troy, MI
Senior Lifeguard Summers 2010 – 2013

- Led the 25 first year guards in facility maintenance and guard skills training
- Worked in teams of 15 lifeguards to respond to emergency situations
- Ensured safety of the 400-1000 daily patrons through close scanning of pools

Millcreek Building Company Troy, MI
Property Management, Building Maintenance 2009 – 2014

- Performed landscaping tasks such as lawn maintenance and tree trimming
- Maintained 3 of the employer's properties

University of Michigan RecSports Ann Arbor, MI
Building Supervisor Present

- Responsible for maintaining daily operation of recreation building
- Daily tasks include addressing any patron or employee concerns, ensuring building has a safe and friendly environment, and setting up equipment for patron activities

Computer Skills Proficient with Microsoft Excel, Word, and PowerPoint

Certifications Red Cross certified in First Aid, CPR, and AED training

Awards
Julius F. Bartus Scholarship Recipient- Fall 2013, Fall 2014
Dean's Honor List for Academic Distinction- Fall 2012-Winter 2014

Activities
U of M RecSports Building Supervisor/Lifeguard- Fall 2013 – present
Engineering Honor Council Investigator- Winter 2013 – present
Tau Beta Pi Engineering Honor Society Member Winter 2014 – present
U of M SWE/TBP Career Fair 2014 Hospitality Chair *Winter 2014 -present*

KELSEY HOCKSTAD

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OBJECTIVE

To further my mechanical engineering education through hands-on experience.

EDUCATION

University of Michigan – GPA: 3.93/4.00 — Ann Arbor, MI

- B.S.E., Mechanical Engineering — *Graduation: May 2015*
- M.S.E., Mechanical Engineering — *Graduation: May 2016*

INDUSTRY EXPERIENCE

GE Transportation – Emissions Engineer Intern — Erie, PA — *May – Aug. 2014*

- Conducted gauge repeatability and reproducibility tests on emissions testing systems
- Analyzed engine emissions data using Excel and investigated inconsistent results
- Resolved errors in inventory data for general emissions testing systems and analysis
- Digitized gas bottle certification sheets and organized for easy access

Accenture – Analyst Intern — Topeka, KS — *May – Aug. 2013*

- Kansas Eligibility Enforcement System, Test Team
- Wrote, uploaded, and executed test scripts using Excel and Rational Quality Manager
- Discovered and logged defects in system using ClearQuest
- Updated existing scripts to reflect changes in Detailed System Design documents
- Corrected errors in Detailed System Design documents, logged respective open design items

COLLEGE ACTIVITIES & LEADERSHIP

Tau Beta Pi – Engineering Honor Society — Ann Arbor, MI

- President (*Sept. – Dec. 2014*) — *Sept. 2012 – Present*
  - Running general body meetings, officer meetings, and advisory board meetings
  - Supervising officers in University of Michigan chapter
  - Representing chapter at National Convention in Spokane, WA
- New Initiatives Chair (*Jan. – Apr. 2014*)
  - Planned and directed New Initiatives meetings where members discussed new ideas for chapter
  - Followed up with officers and focus groups to ensure action items were met
  - Managed Website Officer, Historian, and Publicity Chair
- Membership Chair (*Sept. – Dec. 2013*)
  - Tracked all active members' eligibility for various levels of active status using Excel
  - Managed alumni relations by updating and maintaining email lists

Society of Women Engineers — Ann Arbor, MI

- Public Relations Director (*Sept. 2013 – Apr. 2014*) — *Sept. 2011 – Present*
  - Organized biweekly seminars for all members with speakers from industry
  - Supervised officers on Public Relations Committee as they organized events to reach out to the society, college, and community
- Engineering Career Fair Chair (*Sept. – Dec. 2013*)
  - Determined appropriate food and drink amounts for increased size of event
  - Organized purchasing and distribution of food, drinks and other goods
- Social Chair (*Sept. 2012 – Apr. 2013*)
  - Planned monthly social events for the benefit of our section members
  - Collaborated with other student societies to organize larger, joint events
  - Launched annual Charity Concert featuring live musical groups, benefitting Make-a-Wish Foundation

Engineering Class Mentor — Ann Arbor, MI

- Class Title: Engineering 100 – Underwater Vehicle Design — *Sept. – Dec. 2012*
- Served as a mentor and resource for a team building a remotely operated underwater vehicle

COMMUNITY INVOLVEMENT

- Vinyl Palooza! – organized GE interns as volunteers at fundraising event for Erie's Future Fund (*June 2014*)
- Science Olympiad coach – 4th & 5th grade students in Ann Arbor (*Feb. - May 2014*)
- Book Swap volunteer – semesterly venue for students to buy and sell textbooks (*Sept. 2013 - Present*)
- MindSET volunteer – teaching underprivileged elementary students about engineering (*Oct. 2012 – Present*)

Catherine Hu

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OBJECTIVE

Seeking a position as a chemical engineer working in the environmental field.

EDUCATION

May 2015 — **University of Michigan**
Ann Arbor, MI — *B.S.E in Chemical Engineering*
Specialized Study in Sustainable Engineering
GPA: 3.560/4.0

- ▪ Mass and Heat Transfer
- ▪ Separation Processes
- ▪ ChE Lab I
- ▪ Sustainable Engineering Principles
- ▪ Reaction Engineering Design

Summer 2013 — **Munich University of Applied Sciences**
Munich, Germany — *Engineering for Sustainability*

- Five week study abroad program with courses taught in English by professors from the Munich University of Applied Sciences, Strascheg Center for Entrepreneurship, and California Polytechnic State University
- ▪ Renewable Energies
- ▪ German Language & Culture
- ▪ Innovation and Entrepreneurship for Green Technologies

EXPERIENCE

5/2014-8/2014 — **Pacific Industrial Development Corporation**
Ann Arbor, MI — *Applications Engineer Intern*

- Worked on projects for the automotive, abrasives, and polishing industries
- Helped with testing of catalyst support materials, researching, making, and testing abrasive slurries, and assisting with reactor loading and sample preparation

9/2013-12/2013 — **University of Michigan Department of Chemical Engineering**
Ann Arbor, MI — *Research Assistant, Prof. Solomon Laboratory*

- Worked on reverse engineering bacterial biofilms by optimizing model bacteria system
- Received training in microscopy, computer image processing, and microbiology

9/2011-6/2013 — **University of Michigan Department of Earth & Environmental Sciences**
Ann Arbor, MI — *UROP Research Assistant, Prof. Smith Laboratory*

- Worked on collecting data to better understand the evolution of ginger plants and relatives
- Compiled x-ray tomographs of ginger seeds and studied their structure and composition using the computer program Avizo
- Used Excel and PowerPoint to create poster and present research at symposium

ACTIVITIES

1/2012-present — **Society of Women Engineers (SWE)**
Ann Arbor, MI — *2014-15 Secretary, 2012-13 Elementary Outreach Officer, SEE Camp 2013 Co-Director, SWE/TBP Career Fair 2013 Volunteers Co-Chair, 2013-14 Community Relations Co-Chair*

- Coordinated elementary school visits to expose students to engineering by doing hands-on activities
- Led committee in organizing SWE's Summer Engineering Exploration (SEE) Camp, a one week residential camp for 40+ high school students
- Assisted in recruiting and organizing volunteers for the student run SWE/TBP Career Fair
- Planned collaborative community service events, including a 5K charity Fun Run

ADDITIONAL

Campus Band Fall 2011 & Fall 2013
UM Sustainable Food Program Friends of Campus Farm volunteer

Olena Huang

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Education

- **University of Michigan**, Ann Arbor, MI (Sept 2013–May 2017)
  - College of Engineering, major: Computer Science
  - GPA: **4.0 out of 4.0**
- **Troy High School**, Troy, MI (Sept 2009–June 2013)
  - GPA: **4.5 out of 4.0** (unweighted 4.0 out of 4.0)

Experience

- **Union Pacific Summer Internship** (Summer 2014)
  - Wrote an app for Google Glass that transmitted data via Bluetooth to a mobile device
  - Explored feasibility of deploying the Google Glass in a train yard
- **Undergraduate Research Opportunity Program** – selective admission (2013-2014)
  - Worked in sustainable architecture to optimize natural lighting in buildings
  - Wrote computer programs in C++ to calculate the amount of sunlight penetrating into an office
- **Union Pacific Safety-Themed Hackathon** (July 2014)
  - Created an app that put phone into "train safety" mode and sent user data to a website

Leadership and Campus Involvement

- **Society of Women Engineers** (2013-current)
  - **College Relations Co-Chair** (current)
    - Organized Mr. Engineer, a charity event featuring several engineering organizations
    - Obtained corporate sponsorship and led a subcommittee in planning the event
  - **Career Fair Publicity Chair** (current)
    - Advertised to the campus about the event
  - **Subcommittee Member** (2013-2014)
    - Managed a fundraiser with Pizza House for a Charity Concert
    - Acquired company donations for charity events
- **Global Scholars Program** – selective admission (current)
  - Will work on projects to encourage global understanding and acceptance
- **Women in Science and Engineering Residential Program** – selective admission (2013-2014)
  - Contributed to events that fostered the professional development of women in the STEM fields
- **Zumba Teacher for UMove Fitness** (current)
  - Created a high-energy, motivated class and encouraged exercise

Awards

- **UM's Jean Fairfax Scholarship** – awards approx. 75% of tuition costs to students with outstanding academic and leadership credentials
- **William J. Branstrom Freshman prize** – granted to the top 5% of freshman class after first semester
- **2013 Verizon App Challenge State Finalist** – designed new phone app to assist high school students in learning the Digestive System
- DOW Chemical Scholarship, JP Morgan Industry Scholarship

Relevant Skills

- Knowledgeable with **C++** and **Matlab**, capable with **Java**, somewhat familiar with **XML** and **HTML**
- **Spanish** – speak, read, write; **Chinese** – speak, read, minimally write
- Competent with Android applications and Google Glass applications

Julia Elisse Javier

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EDUCATION

University of Michigan, Ann Arbor – College of Engineering **Expected Graduation Date: May 2016**
Pursuing Bachelor of Science in Mechanical Engineering
California Academy of Mathematics and Science (CAMS) **Class of 2012**
Cumulative GPA: 3.85/4.00

HONORS/AWARDS

- U of M Center for Engineering Diversity and Outreach ScholarPOWER Rising Student Achievement Award – 2014
- University of Michigan Jean Fairfax Scholarship Award – 2012-2016
- South Central Scholar – 2012-2016, Lifetime Alumni
- Carson Women's Club Academic Scholarship – 2012-2016

EXPERIENCE

Product Engineering Intern – Nexteer Automotive, Core CEPS Group **May 2014 – August 2014**
- Developed a new skewed worm gear set through contact pattern, durability, lash/backdrive, and zoning analysis.
- Investigated the effects of thermal conditioning and torque degradation due to initial work input on worm gears.
- Evaluated the accuracy and precision of worm zone analysis methods from different Nexteer departments.
- Designed and implemented a new test stand fixture for optimal use.

Undergraduate Research Assistant – University of Michigan, Design Heuristics Laboratory **September 2012 – Present**
- Analyzed the effects of Design Heuristics in concept generation and development in engineering product design.
- Developed emergent coding schemes based on context-dependent data and investigated frequencies of heuristics used.

Transportation Planning Intern – Port of Long Beach **July 2, 2012 – August 23, 2012**
- Outlined the Port's process of reviewing and implementing a Transportation Management Plan.
- Compiled and analyzed traffic count data to pinpoint critical traffic locations in the Harbor District using Microsoft Excel.
- Applied TransCAD in order to estimate traffic volumes of future Port activity.

RELATED PROJECTS

EPS Driven – Nexteer Automotive **May 2014 – August 2014**
- Project Manager – delegated assignments, led meetings, and established and managed project budget.
- Designed and manufactured a racing go-kart awarded First Place and Fastest Car in the EPS Driven Race 2014.

Design and Manufacturing I – University of Michigan **September 2013 – December 2013**
- Lead CAD operator and manufacturing engineer.
- Established and managed project schedule and budget.

ACTIVITIES

Society of Women Engineers **September 2013 - Present**
- College Relations Chair and SWE/TBP Career Fair Receptions Chair for the 2014-2015 school year.
- Responsible for planning large scale SWE events and student organization recruiting events.
- Elite Member status from participating in multiple subcommittees, receiving the second most participation points.
- Designed publicity material for many SWE events that increased sales and event attendance.

Center for Engineering Diversity and Outreach **September 2013 - Present**
- Mentor for first year undergraduate student in the M-STEM program.

Michigan Hybrid Racing Team **September 2012 – May 2013**
- Chief liaison for obtaining automotive parts, design review presenter, and assignment delegator.
- Mechanical Division Front Wheel Drive member.

Michigan Research Community (MRC) **August 2012 – May 2014**
- Presenter at the 2013 MRC Spring Research Symposium.
- MRC mentor to incoming undergraduate freshmen.

BLUELab – Hagley Gap Project **August 2012 – December 2012**
- Led team of four students in designing and prototyping a water filtration system to be implemented in Hagley Gap, Jamaica.

SKILLS

Proficiency in:
- Autodesk Inventor, SolidWorks, Adobe Illustrator, Adobe Photoshop, and Microsoft Office
- Lathe operation, mill operation, basic machine shop training
- Technical writing, and schedule and budget planning

Languages:
- English, Tagalog (language of the Philippines)

Tae-Hyung Kang

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Campus: 1780 Broadway St. #S317D, Ann Arbor, MI 48105 248.444.6815

Objective

Seeking a summer internship in order to apply my current experience and education and to increase my knowledge and understanding of Electrical Engineering.

Education

University of Michigan, Ann Arbor, MI May 2015
B.S.E., Electrical Engineering | Minor in Mathematics
G.P.A.: 3.826 | 4.00

Experience

ePack, Inc. May 2014 – Present
Engineering Intern

- Performance testing and analysis of MEMS gyroscopes assembled on Environment Resistant Platform (ERP)
- Designed and Implemented Thermal testing of MEMS gyroscopes inside a vacuum chamber
- Miniaturizing the oven control system of the ERP with a microcontroller

Student Space Systems Fabrication Lab (S3FL) January 2014 – Present
Miniature Tether Electrodynamics Experiment (MiTEE) – Orbits and Attitude Control System

- Performed Attitude Control System Trade Study
- Implementing the B-dot control system for stabilization before Tether Deployment

Lurie Nanofabrication Facility – University of Michigan September 2013 – May 2014
Undergraduate Research Assistant

- Characterization of Chemical-Mechanical Polisher Lapping curvature on Silicon Wafer
- CMP-Lapper Integrated Thinning Procedure of Si, SOI substrates
- Developed training videos of CMP-Lapper Integrated Thinning Procedure
    - Mounting Substrates, CMP Carrier Change, Lapper

Wang Chu Chein-Wen Research Fund – University of Michigan May 2013 – August 2013

- Achieved quicker response time for Osmotic Actuated Devices
- Characterization of Hydrofluoric glass etching and PDMS Spin Coating
- Fabrication of Microfluidic Devices for Cancer-Cell Capture Research

Skills

- **Fluent:** Korean, English
- **Proficient:** Microsoft Office, MatLab, Cadence
- **Basic:** C++, Quartus, Altium Designer, L-Edit, Wolfram Mathematica, LaTex

Extracurricular

Tau Beta Pi – Michigan Gamma Chapter December 2012 – Present

- 2014 SWE-TBP Career Fair Publicity Chair
- 2014 Winter Operations Officer

Center for Engineering Diversity and Outreach September 2013 – April 2014
Peer Mentor

- Engaging in exam preparation and guiding a freshman through their first year in college

M-STEM Academy – University of Michigan, Ann Arbor, MI July 2011
Michigan – Science, Technology, Engineering, and Math Academy

- Participated in 6-week intensive coursework to prepare for college

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Joshua Kempfer

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Permanent Address
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Objective

Acquire the Thomas S. Rice Award

Education

University of Michigan — Ann Arbor, MI
B.S.E in Chemical Engineering — December 2014
GPA: 3.85/4.0

- Heat and Mass Transfer
- Separation Processes
- Reaction Engineering and Design
- Engineering Lab
- Process Engineering
- Structures of Materials
- Polymeric Materials
- Engineering Statistics

Industrial Experience

Ford Motor Company — Dearborn, MI
Advanced Evaporative Emissions System Intern — May-August 2013

- Performed a Six-Sigma Design of Experiment to create a transfer function for change in carbon canister mass as a function of pressure, fuel level, and method of testing.
- Conducted tests on Evaporative Leak Check Modules to determine if new modules function in a similar method while reducing costs

Delphi — Troy, MI
IT Engineering Systems Intern — May-August 2012

- Led training session to teach engineers how to use Teamcenter Community
- Coordinated resolution of pre-implementation issues for Teamcenter Community sites, which included with engaging service providers, and interfacing between engineering and IT services
- Designed and Implemented a Win-Loss SharePoint Site

Other Experience

UM -Dearborn Supplemental Instruction Program — Dearborn, MI
Supplemental Instruction Leader — Aug. 2011-April 2012

- Tutor for Physics and Chemistry. Created worksheets for students and helped students develop a deeper understanding of class material. Some students improved their scores by two letter grades by attending sessions.
- Instructed up to 30 students in groups

Antonio's Cucina Italiana — Canton, MI
Busser — July 2010-June 2011

- Lead busser, trained new employees, improved customer satisfaction, 30 hours/week during school year

Computer Experience

- Proficient with Minitab 15 Design of Experiment, Teamcenter Visualization Professional, Teamcenter Community, Word, Excel, PowerPoint, SharePoint. Familiar with ASPEN

Leadership and Extracurricular Activities

- Tau Beta Pi Engineering Honor Society, Publicity Chair (Winter 2013), Career Fair Senior Publicity Chair and Campus Outreach Chair (Fall 2013) — April 2012-Present
- Chemical Engineering Car Team, Secretary — Sept. 2012-Present
- Michigan Epeians, Award/Alumni Co-Chair — Dec. 2013-Present
- American Institute of Chemical Engineers (AIChE), Member — Sept. 2012-Present

Awards

- Chevron Industry Scholarship Award, Supplemental Instructor Leader Award

Cynthia Lu

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ACADEMIC PROFILE

- **University of Michigan – Ann Arbor** Graduation: December 2014
- GPA: 3.71
- Major: Electrical Engineering
- Minor: Multidisciplinary Design

WORK EXPERIENCE

Cisco Systems Supply Chain Operations Intern (Test Engineer) May 2014 – August 2014

Cisco Systems Headquarters, San Jose CA

- Presented to executives and won second place in a cross functional team case competition against 10 other groups
- Diagnosed and resolved bugs in LED test code in C, integral for new upcoming router hardware release
- Designed test sequences and implemented code changes to ensure correct LED functionality
- Provided comprehensive error analysis and software documentation for 3 router test codes to increase awareness and productivity of test engineers

Union Pacific IT Intern (Systems Engineer) May 2013 – August 2013

Union Pacific Headquarters, Omaha NE

- Devised, implemented, and tested an intelligent electrical system for intermodal container security
- Led the programming of Raspberry Pi's and GPS devices to accurately track and report container status
- Developed and debugged the Python code that linked RFID functionalities to the system
- Designed a custom 3D printed system enclosure for our system worth $1,400 using SolidWorks

Voluntary Research Assistant February 2012 – May 2012

Integrated Biosystems and Biomechanics Lab (IBBL) under Dr. Jianping Fu

- Created nanopost molds for study in tensional homeostasis in cells, integral in pathological research
- Assisted with diluting stem cell populations used in the study of mediating stem cell functions

LEADERSHIP

SWE/TBP Engineering Career Fair Chair (Publicity, Operations, Volunteers) April 2012 – present

- Actively involved in three leadership roles in the SWE/TBP Career Fair committee over the course of three years
- Designed, ordered, and printed over $1,000 in banners and advertisements related to the Career Fair
- Reserved parking for 300+ companies and directed volunteers and chairs to coordinate parking logistics
- Coordinated tables and booths set up and ensured proper company package delivery
- Will be directing 100+ volunteers to guarantee smooth career fair operation

2014 Union Pacific Multidisciplinary Design Team Mentor January 2014 – May 2014

- Advised a cross functional team of 6 on deadlines and timelines for deliverables throughout the semester
- Imparted valuable feedback on a weekly basis concerning how to interact with a corporate client, stay focused on the problem, and provide insight, direction, and momentum to the design project
- Provided the team with resources, points of contact, logistical information, and timely responses to questions
- Investigated team dynamics and helped locate and troubleshoot internal team conflict through individual chats

TEAM PROJECTS

2013 Union Pacific Multidisciplinary Design Team (ENGR455) January 2013 – December 2013

- Developed a tamper evident seal for Union Pacific intermodal containers within a 6 person team
- Designed circuit connections, integrated sensors, and prototyped and 3D printed the SolidWorks encasing
- Tested intensively correct functionality and presented design solution at the Winter Design Expo
- Compiled a comprehensive testing, sensor integration, and circuit connection documentation in a 25 page report

ADDITIONAL INFORMATION

Awards/Honors:

- Dean's list: 4 semesters, University Honors: 5 semesters, 2013 James B. Angell Scholar (straight A's at least 2 semesters), Eta Kappa Nu (HKN)

Computer Skills:

- Platforms: Windows, Mac OS, Linux
- Languages: Python, C++, C, Java, MatLab, SolidWorks

Jiexi (Cici) Lu

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EDUCATION

University of Michigan — Ann Arbor, MI
Bachelor of Science Degree, Computer Science and Engineering — 05/15
Minor in Philosophy
GPA: 3.2

COMPLETED RELATED COURSES EECS 381 (Object Oriented Programming), EECS 281 (Data Structures and Algorithms), EECS 483 (Compiler Construction), and EECS 370 (Introduction to Computer Organization)

ENGINEERING RELATED EXPERIENCES

EECS 280 Instructional Aid — 09/14 – present
University of Michigan College of Engineering — Ann Arbor, MI
• Lead weekly discussion classes to review and supplement concepts introduced in lecture, and held weekly office hours to further of their understanding of the course material.

Security Business Group (SBG), Software Engineering Intern — 05/14 – 08/14
Cisco Systems, Inc. — San Jose, CA
• Developed a comprehensive tool that summarized weekly bug resolution progress in the Identity Service Engine product to allow the Director of Engineering to efficiently track performance of over 12 geographically dispersed development teams.
• Designed and implemented tools and automated scripts to streamline bug reporting progress. Tools ensured correct and complete filing of bug reports and saved over 100 hours in manual follow up and refiling.

Summer Undergraduate Research Experience (SURE) — 12/12 – 04/13
University of Michigan — Ann Arbor, MI
• Played a key role in leading a team of 10 undergraduate students in Professor Elliot Soloway's research group in introduction of mobile applications that improve the quality of education in America.
• Launched a website to market educational applications and communicate functions to the general public through documentation and video tutorials. The website resulted in nationwide interest in testing the applications.

LEADERSHIP AND INVOLVEMENT

Webmaster — 12/13 – Present
Tau Beta Pi and Society of Women Engineers Career Fair
• Applied innovative web development tools in redesigning the website for the largest University of Michigan Engineering career fair. The new site improved user experience for the career fair attendees and ensured smoother webmaster transitions.

Power Electrical Engineer — 09/12 – 11/12
University of Michigan Solar Car Team — Ann Arbor, MI
• Resolved numerous issues with the Solar Car's battery pack performance by researching and using better battery cells and updated welding techniques, which contributed to the team winning the American Solar Challenge by over 10 hours.
• Represented and publicized the Solar Car team by speaking with over 100 prospective members at recruiting events.

Academic Networking Officer and High School Outreach Officer — 09/11 – 04/14
Society of Women Engineers (SWE)
• Improved Shadow Day attendance by 400% by expanding the high school network and creating engaging and interactive activities, which inspired more women to pursue a career in engineering.
• Conceptualized and conducted an event (GREAT Day) that brought 200 middle and high school girls to the University of Michigan to introduce them to Engineering. Received a $5,000 corporate sponsorship to produce the event.
• Led a subcommittee of 20 undergraduate students to create and implement an agenda for GREAT Day, which was filled with successful female engineer speakers and activities that challenged students to solve engineering problems.

ADDITIONAL INFORMATION

PROGRAMMING LANGUAGES **Proficient:** C/C++, HTML, CSS, Python, Perl **Intermediate:** Objective C, Swift

PERSONAL PROJECTS
Personal Website: www.jiexilu.com
Web Development: http://intergalacticmlc.org/ and http://www.umcareerfair.org/
Created an iPhone card matching game

INTERESTS Developing websites and iOS applications, skiing, hiking, photography, and am an amateur ukulele player.

OLIVIA MARSHALL

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OBJECTIVE

I am looking to start my professional career in a civil engineering related field starting in March 2015

EDUCATION

University of Michigan – Ann Arbor, MI

M.S.E. Civil Engineering, Geotechnical Concentration, GPA 3.72/4.0 *Jan 2014-Dec 2014*

B.S.E. Civil and Environmental Engineering, Mathematics Minor, GPA 3.77/4.0 *Sept 2010-Dec 2013*

University Honor List and Dean's Honor List

EXPERIENCE

Vías y Construcciones Madrid, Spain *June 2014-Aug 2014*

Intern through IAESTE Program

- Assisted in preparing bids for projects in the US, Iran and Norway
- Created schedules, performed quantity takeoffs and corrected English translations

Walsh Construction Company Chicago, IL *May 2013-Aug 2013*

Intern – O'Hare South Airport Traffic Control Tower Project

- Reviewed mechanical, electrical and plumbing systems
- Processed submittals and RFI's
- Participated in subcontractor coordination meetings
- Summarized legal information in project contracts
- Completed OSHA 10 hour

Structures Lab University of Michigan *May 2012-April 2013*

Research Assistant

- Contributed to research on HSS members
- Performed tensile tests on steel sections
- Analyzed material properties of steel sections

J.S. Vig Construction Company Ann Arbor, MI *May 2012-July 2012*

Intern

- Corresponded with Architects, Engineers, Subcontractors and Owners
- Processed submittals, project changes, and close outs
- Attended project meetings and took minutes
- Worked in a LEED certified gold building

Haworth Furniture Company Holland, MI *May 2011-Aug 2012*

CNC Programmer

- Wrote programs to keep in time with production flow
- Designed a plant website using Microsoft Sharepoint
- Created user manuals for plant website
- Contributed to improving plant layout

ACTIVITIES

Student Sustainability Initiative – Board Member *Fall 2014*

- Promote and fund sustainable projects on campus
- Expand composting program on university engineering campus

Chi Epsilon – Fundraising Chair *Winter 2012-Present*

- National Civil Engineering Honor Society
- Joined Winter 2012, Secretary Fall 2012 and Winter 2013, President Fall 2013, Fundraising Chair Winter 2013 and Fall 2014

Society of Women Engineers *Winter 2011-Present*

- Member since Winter 2011
- Elected CIS Admin for the 2012-2013 school year and CIS Director for 2013-2014
- Maintained correspondence with company recruiters
- Assisted companies through the process of holding a corporate information session

The Epeians *Fall 2012-Fall 2013*

- Engineering Leadership Honor Society
- Joined Fall 2012, Service Chair for Winter 2013 and Co-President for Fall 2013

SKILLS

Engineering: AutoCAD, RISA, operated CNC and MTS machines

Leadership: Communication, Organization, Managing workflow

MATTHEW RILEY

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EDUCATION

UNIVERSITY OF MICHIGAN — **Ann Arbor, MI**
College of Engineering
Bachelor of Science in Chemical Engineering, April 2016
- GPA 3.79/4.0
- Member of Engineering Global Leadership Honors Program
- International Minor for Engineering
- Dean's List 4 consecutive semesters
- University Honors 4 consecutive semesters
- ScholarPower Banquet: New Student Achievement (2013), Undergraduate Junior Student Achievement Award (2014)

PONTIFICIA UNIVERSIDAD CATOLICA MADRE Y MAESTRA
Community Health — **Santiago, Dominican Republic**
- Completed coursework in Spanish on diseases, public health, and medical sociology
- Gained hands on medical experience through intensive stay in a rural clinic
- Promoted safe sex in an underdeveloped community utilizing spanish speaking skills

EXPERIENCE

2014-Present — **TAU BETA PI ENGINEERING HONORS SOCIETY** — **Ann Arbor, MI**
Operations Career Fair Chair/Member
- Managed equpiment for 300 companies in the Fall 2014 TBP/SWE Career Fair
- Increased student's knowledge of Math 215 through one on one tutoring
- Taught and introduced engineering design concepts to local fifth graders

2013-2014 — **UNIVERSITY OF MICHIGAN CHEMICAL ENGINEERING DEPT.**
Research Assistant — **Ann Arbor, MI**
- Quantified expression level of target proteins (number of proteins per cell) to determine optimal dose of required imaging agents for diseases such as diabetes
- Displayed new findings at meetings to graduate students and university faculty
- Contributed to a research paper on molecular imaging of beta cells in the pancreas

2012-2013 — **ENGINEERING 100: BIOTECHNOLOGY AND HUMAN VALUES** — **Ann Arbor, MI**
Team Member
- Engaged with team members to research and investigate bronchitis
- Constructed a diagnostic test that could diagnose bronchitis pre-symptomatically
- Wrote a report on the design and presented to peers and Professors

2013-Present — **SOCIETY OF HISPANIC PROFESSIONAL ENGINEERS** — **Ann Arbor, MI**
Member
- Aided a Guatemalan community by constructing a drainage pipe and pharmacy
- Performed in many volunteer activities such as Habitat for Humanity Re-Store

2012-Present — **MICHIGAN STEM ACADEMY** — **Ann Arbor, MI**
Member
- Gained preparatory engineering knowledge through an intensive summer camp
- Developed team and presentation skills

ADDITIONAL
- Computer skills: Aspen, C++, Matlab, Basic Excel, Basic Maple
- Proficient in Spanish
- Guided and advised incoming freshmen in a common reading experience
- Mentored younger members in student groups
- Assisted over 60 members of a blind community in Chicago over Spring Break
- Volunteered and studied abroad in Guatemala, the Dominican Republic and Peru summer 2014

LANCE W. SCHMIDT

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OBJECTIVE

To obtain a Summer 2015 internship that allows me to utilize and enhance my problem-solving, interpersonal, and critical thinking skills while collaborating with other interns or full-time employees.

EDUCATION

University of Michigan — Ann Arbor, MI
College of Engineering — April 2016
B.S.E., Mechanical Engineering
Cumulative GPA: 3.885

PROJECTS

ME 250 "M-Ball" Robot - Designed, manufactured, assembled, and tested a robot that would fulfill our specific role within our squad, which was to block the opponents robot from scoring in our basket. In the actual competition, our squad took third place overall.

BLUELab Biogas Container - Worked as an ENGR 100 team with four other engineers to design and build a prototype container that would hold biogas, a cooking fuel created from waste, for villagers in Liberia.

MSTEM Academy Summer Program - Worked in teams of four to take on a multitude of engineering tasks. This included designing a wooden bridge and programming a water balloon launch. This 6-week program helps to develop essential engineering skills and ensure academic success as an engineer.

EXPERIENCE

Return Summer Internship - DTE Energy — Monroe Power Plant, Monroe, MI
Power Plant Operations - Alarm Management — May 12 - August 22, 2014

- Managed alarm frequency data in order to identify possible equipment failure throughout the plant. This project also involved identifying chattering alarms and fixing faulty wiring, allowing the operators to be more productive and tend to more urgent matters.
- Developed training material for Supervising Operators and Power Plant Operators regarding the alarm management software.
- Worked with engineering team during outages on leak testing and pluggage mapping of the boiler.
- Reorganized and improved the plant's entire key system to allow for more efficient key logging.
- Assisted Corporate Safety Team in developing a pilot eyewear protection program for all plant personnel.

Summer Internship - DTE Energy — DTE Headquarters, Detroit, MI
Facilities Operations — May 28 - August 16, 2013

- Created over 700 assets, created preventative maintenance schedules, and managed work orders. This work aids in the ongoing effort to save money by preventing equipment repair or replacement.
- Developed proficiency and learned advanced techniques of Microsoft Excel and DTE's work management system, IBM Maximo.

COMPUTER SKILLS

Platforms: Windows XP/Vista, MAC OS/OSX, Unix - Redhat
Applications: MS Excel/ Visio/ Project/ AutoCAD/ Inventor/ Microstation/ SolidWorks/ IBM Maximo
Languages: MATLAB/ C++

LANGUAGE

Basic Conversational Spanish skills

ACTIVITIES

Tau Beta Pi Engineering Honor Society, Career Fair Chair — February 2014 - Present
CEDO Mentoring Program, Peer Mentor — September 2013 - Present
Habitat for Humanity, Volunteer — 2011 - Present
M-STEM Academy, Member — June 2012 - Present

AWARDS

Eagle Scout Rank — May 30, 2013
University of Michigan Dean's List — F 2012, W 2013, F 2013, W 2014
The BP Award for Achievement (for M-STEM scholars) — September 2013
ScholarPOWER Student Achievement Award, Highest Recognition — January 2014
ScholarPOWER New Student Achievement Award — January 2013

MONICA S. WALKER

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EDUCATION

University of Michigan, Ann Arbor, MI
B.S. Environmental Engineering, Minor in Urban Studies, 3.0 / 4.0 GPA
Expected Graduation May 2016

EXPERIENCE

General Motors, Lansing, MI; May-August 2014
Environmental Engineering Intern, Lansing Delta Township Assembly Plant

- Initiated a waste composting business case to reduce cost associated with cafeteria waste
- Obtained 5-Year certification for storm water operator
- Designed wildlife guidebooks for interactive/interpretive learning
- Managed 75 acre wildlife habitat: nest box monitoring, Phragmites control, tick risk assessment
- Instructed 3rd-7th grade students at several summer science camps on sustainable practices such as waste upcycling and reuse
- Studied environmental compliance rules and regulations for manufacturing, efforts necessary to become landfill free, and LEED certification requirements
- Established a multi-year volatile organic compound data base from paint shop emissions

Michigan State University, East Lansing, MI; June-August 2013
Biosystems Engineering Laboratory Assistant, P.I.: Dr. Steven Safferman

- REU program EnSURE participant: Engineering Summer Undergraduate Research Experience
- Facilitated an experiment on adsorption of phosphorus into nano-enhanced media
- Analyzed samples for Phosphorous, COD, Nitrate
- Provided a solution to a major food-processing company regarding new products for wastewater treatment
- Presented a research poster at Mid-SURE annual symposium

Michigan State University, East Lansing, MI; June-August 2012
Biosystems Engineering Laboratory Assistant, P.I.: Dr. Dawn Reinhold

- Varied the phenotypes of duckweed and charted growth on different media types, to study the uptake of soap waste water
- Learned to operate a laboratory effectively, run an experiment, keep careful notes
- Assisted graduate students with master's and PhD projects

ACTIVITIES

Michigan Marching Band – Clarinet, Rank Leader Candidate (2014); Fall 2012-present
Society of Women Engineers – Corporate Information Session Secretary (2013), Social Chair (2014), Career Fair Volunteers Chair (Fall 2014)
Women in Science and Engineering Residence Program – Peer Mentor; Fall 2012-Spring 2014
Kappa Kappa Psi – Honorary Band Fraternity; Winter 2014-present

SERVICE

Study Abroad in India, May 2014

- Facilitated an engineering camp for 100 6th-12th graders for one week in Walchandnagar, India, teaching topics such as renewable energy and computer science with hands on learning
- Expanded cultural awareness by travelling to Jaipur, Agra, and Delhi the following week

Alternative Spring Break, Wheeling, WV, Spring 2014

- Assisted a family resource center in providing meals and educating young families for one week

AWARDS AND SCHOLARSHIPS

Schlumberger Scholarship, Winter 2014
Polish Nation Alliance Scholarship Award – Academic, Fall 2013