

# Hannah B. Robar

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## Education

**Michigan State University (MSU), East Lansing, MI**

**Spring 2017**

- Bachelors of Science in Biosystems Engineering
- Minor in Environmental and Sustainability Studies
- Dean's List, GPA of **3.69/4.00**.

**Information and Communication Technologies for Development Study Abroad Program, Arusha, Tanzania**

**May 2016**

- Learned a working knowledge of Swahili in order to effectively communicate during the month-long program.
- Installed and updated computer systems in rural schools, which were often not connected to a power grid.
- Collaborated with teachers and students in these schools to show how computer systems can aid in education.

**Study Away Disney World Program – Science Behind the Scenes, Orlando, FL**

**Spring Break 2014**

- Study away program with a focus on environmental studies and natural science.
- Saw an in-depth look at the environmental studies and research that is taking place at the Walt Disney World Resort.

**Dearborn Center for Math Science and Technology (DCMST), Dearborn Heights, MI**

**June 2013**

- Completed all four years of the rigorous technology based program with DCMST graduation cord award.

## Projects

**Irrigation System for Vegetable Production, Hauts-Bassins, Burkina Faso**

**Sept. 2016 – Present**

- Project for USAID Appropriate-Scale Mechanization Consortium (ASMC).
- Developing a low-cost, drip-irrigation system for small-scale vegetable production in Burkina Faso.
- Planning to travel to Burkina Faso to implement the project upon completion of a prototype.

## Employment Experience

**Information Technology Empowerment Center (ITEC), Instructor – Lansing, MI**

**Apr. 2016 – Present**

- Teaches various technology courses such as Lego Robotics, video game design, app design, raspberry pi, web design, and digital media.
- Adapts to changing situations, and works with students of all backgrounds and skill levels.

**International Academic Orientation Program (IAOP), Orientation Leader Captain – MSU, East Lansing, MI**

**Aug. 2015 – 16**

- Led a student cohort during orientation week.
- Gained cultural insight and appreciation from interacting with students of many different nationalities.
- Practiced leadership and public speaking skills when directing a student cohort.

**Residential Initiative on the Study of the Environment (RISE), Tutor – MSU, East Lansing, MI**

**Aug. 2015 – May 2016**

- Provided math, chemistry, and biology tutoring to students.
- Gained valuable leadership skills from helping students succeed in their courses.

**City of Dearborn, Lifeguard/Coach – Dearborn, MI**

**May 2011 – Sept. 2015**

- Received Red Cross Lifeguarding, First Aid, CPR, AED, and Blood-borne Pathogens Certifications.
- Used maintenance knowledge to repair pool issues.
- Developed routines and practice schedules for synchronized and competitive swim teams.

**Dearborn Recreational Dolphins (DRD) Swim Team, Coach – Dearborn, MI**

**Nov. 2011 – May 2013**

- Prepared practice schedules for competitive swimmers.
- Gained leadership experience by coaching young swimmers.

## Volunteer Experience

**Capital Area Humane Society, Volunteer – Lansing, MI**

**Spring 2014 – Present**

- Volunteered time to help the Lansing area humane society.
- Performed a range of duties, such as walking dogs, or cleaning facilities.

## Affiliations

**Phi Sigma Rho Sorority, Alpha Delta Chapter, Member – MSU, East Lansing, MI**

**Fall 2014 – Present**

- National Engineering and Engineering Technology Sorority.
- Develops time management skills, as well as an understanding of commitment.

**Tau Beta Pi National Engineering Honor Society, Alpha Chapter, Member – MSU, East Lansing, MI**

**Spring 2016 – Present**

- Qualifies for membership by having a GPA within the top fifth of the senior engineering class.
- Participates in both social and service requirements for membership.

**Engineers for a Sustainable World (ESW), President – MSU, East Lansing, MI**

**Spring 2016 – Present**

- Works on engineering projects with a focus on sustainability to solve community problems.
- Created a club website and helps to increase membership through campus involvement.
- Increased club membership by 200%.