

# Mitchell W. Kelley

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## Objective

Motivated senior level engineering student with proven organizational and leadership skills looking to obtain an internship or work experience in an engineering industry that utilizes my education and advances my knowledge of the engineering field.

## Education

**Michigan State University**, East Lansing, MI

- B.S. Biosystems Engineering GPA: 3.1/4 Expected May 2017
- B.S. Human Biology May 2013
  - Health Promotion Specialization
  - Bioethics, Humanities, and Society Specialization

## Work Experience

**Intern** at Detroit Diesel Corporation Mechatronics Department, Detroit, MI April 2015 - November 2015

- Wrote, tested and validated software for engine electronic control units
- Integrated software onto electronic control units and assisted in testing on trucks
- Created virtual powertrain software model based on 2016 engine parameters
- Constructed wire harnesses for use on HiL (truck simulation hardware)

**Self-Employed** through local advertising in West Bloomfield, MI May 2009 - August 2016

- Provided quality customer service, managed time well, learned communication skills
- Landscaping, yard maintenance, painting, household chores, house sitting

**Head aquatic director** at Summer Impressions Day Camp, West Bloomfield, MI May 2013 - Sep 2014

- Certified in Lifeguarding, AED, First Aid, and CPR
- Managed and organized all aspects of aquatic activities
- Ensured safety of children at the pool and performed regular safety checks

**Lifeguard Manager** at Westacres Community Beach, West Bloomfield, MI May 2007 - Sep 2012

- Supervised and directed 15 other lifeguards
- Managed schedule and led regular meetings with other lifeguards
- Ensured the safety of patrons at the beach

## Relevant Coursework

- BE 469 Life cycle analysis project: Investigated the live cycle of creating green diesel fuel from poplar compared to traditional diesel production systems
- BE 385 Junior Design Project: Researched, designed, and manufactured small scale convection fruit dehydrator
- EGR 102 Design Project: Engineered prototype for rooftop rainwater collection/distribution system
- EGR 100 Design project: Built and programmed LEGO Mindstorms robot to perform a series of technical tasks

## Activities and Memberships

- Michigan State Biosystems Engineering Club 2013 - Present
- American Society of Agricultural and Biological Engineers 2013 - Present
- Organized and participated on several intramural sports teams 2009 - Present
- Michigan State Pre-Physician Association 2010 - 2013
- Theta Chi Fraternity - Beta Zeta Chapter 2010 - 2013
- Lyman Briggs Residential College 2009 - 2013