

# MONICA S. WALKER

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724 S. Division  
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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 3<sup>rd</sup>-7<sup>th</sup> 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 6<sup>th</sup>-12<sup>th</sup> 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