

# 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: 30<sup>th</sup> 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