

# Adetunji "TJ" Dahunsi (Ah-Day-Toon-Ji)

Ann Arbor, MI

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## Education:

University of Michigan, Ann Arbor, MI

**Master of Engineering in Manufacturing Engineering** (September 2014)

GPA 3.5 / 4.0

University of Oklahoma, Norman, OK

**Bachelor of Science in Mechanical Engineering** (May 2013)

GPA 3.75 / 4.0 (*Graduated with Special Distinction and a Mathematics Minor*)

## Skills:

3D Modeling software (SolidWorks)

ANSYS simulation software (CFD, structural analysis, and combinations of both)

Black Belt Lean Six Sigma trained (DMAIC)

Statistical analysis (tolerance analysis, process capability, etc.; Minitab & Excel)

Android & Web development (Java, C, C++, JavaScript, MEAN stack, HTML, CSS)

Excellent teamwork, interpersonal, written and oral communication skills

## Experience:

### **Software Developer**

*MyFab5 LLC, Ann Arbor, MI, February 2015 – Present*

- Completely rewrote the MyFab5 Android app to be up to date with Google's material design
- Used RxJava to seamlessly perform asynchronous tasks without burdening the UI thread
- Utilized Retrofit to implement an interface between the Android app and a RESTful API
- Gained experience with Android SDK specifics and the Gradle build system
- Contributed to an internal marketing tool built with AngularJS with the Ionic framework

### **WuMRC Research Staff / Programmer Analyst**

*University of Michigan Wu Manufacturing Research Center, Ann Arbor, MI, May 2014 – February 2015*

- Developed the bill of materials, wrote Android BLE app (GATT client) and C++ code (GATT server), and helped create initial designs for a wearable bio-impedance monitor.
- Developed an algorithm to extract bio-impedance parameters from measured data.
- Researched and optimized parameters for 3D Printing silicone by developing a scalable analytical and specific empirical model that relates material flow rate to machine feed rate.

### **Manufacturing Engineering Graduate Student Team Projects**

*University of Michigan, Ann Arbor, MI, September 2013 – April 2014*

- Quality: Gained knowledge in Black Belt DMAIC Six Sigma with respect to statistics, lean operations, SPC, DOE, etc. Acquired proficiency with Microsoft Excel Macros and Minitab.

### **Engineering Learning Center Tutor**

*University of Michigan, Ann Arbor, MI, September 2013 – April 2014*

- Tutored students in Calculus, Physics, Thermodynamics, and Mechanical Engineering courses

### **Halliburton Undergraduate Capstone Project**

*University of Oklahoma, Norman, OK, January 2013 – May 2013*

- Contributed to the development, drawing and manufacture of prototype iterations of composite seats for multiple stage cementers.

### **University of Oklahoma Undergraduate Researcher**

*University of Oklahoma, Norman, OK, January 2013 – July 2013*

- Studied the propagation and effects of pressure waves on the human ear (utilized CFD analysis and CAD modeling extensively; ANSYS, Hypermesh and SolidWorks)

### **Reservoir Engineering Intern**

*ExxonMobil, Lagos, Nigeria, June 2012 – August 2012*

- Validated well tests for various wells in a production platform.

## Misc.:

- "Big M" manufacturing conference and Detroit Maker Faire Volunteer with SME
- University of Oklahoma President's honor roll (fall 2009, spring 2010)