

Education: **M.Eng. Manufacturing Engineering**, *University of Michigan, Ann Arbor, MI, 2014*
GPA 3.5 / 4.0
B.Sc. Mechanical Engineering, *University of Oklahoma, Norman, OK, 2013*
GPA 3.75 / 4.0 (*Graduated with Special Distinction and a Mathematics Minor, Honor roll student*)

Skills: Software, web and Android development
Proficiency in Java, C, C++, JavaScript, Node.js, Angular, git, SQL, MongoDB, HTML, CSS
Test Driven Development / Continuous Integration (Mockito, JUnit, Espresso, Jenkins)
IoT API experience (Bluetooth 4.0, Wi-Fi Near Service Discovery, etc.)
Black Belt Lean Six Sigma trained (DMAIC); tolerance analysis, process capability
3D Modeling and FEA software (SolidWorks, ANSYS CFD)
Excellent teamwork, interpersonal, written and oral communication skills

Experience: **Senior Android Developer**
TekSystems @ General Motors, Detroit, MI, June 2017 – Present

- Contributes to the "MyBrand" suite of apps in a paired programming environment.
- Creates custom views, animations and transitions to the specification of the UI/UX team.
- Presents at weekly Android Developer meetings about various topics and potential ways product and process can be improved.

Mobile Applications Developer

HelloWorld Inc., Southfield, MI, February 2016 – June 2017

- Contributed significantly to the development and maintenance stages of a high visibility project.
- Wrote a gradle plugin to automate publishing 100+ variants of an app at once.
- Utilized git flow extensively in version control.
- Collaborated in an agile environment with scrum, sprint planning, and retrospective sessions.
- Refactored existing projects to use the latest AppCompatActivity library classes and reactive patterns.
- Onboarded a new team member, and walked him through the company's mobile technology stack, code best practices and design patterns.

Software Developer

MyFab5 LLC, Ann Arbor, MI, February 2015 – February 2016

- Completely rewrote the MyFab5 Android app to be up to date with Google's material design.
- Used functional reactive programming (RxJava) to seamlessly perform asynchronous tasks without burdening the UI thread.
- Utilized Retrofit to implement an interface between the Android app and a RESTful JSON API.
- Gained experience with Android SDK specifics and the Gradle build system.
- Contributed to an internal marketing tool built with Angular, Ionic, and Cordova/PhoneGap.

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 Bluetooth low energy 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.

Misc.: "Big M" manufacturing conference and Detroit Maker Faire Volunteer with SME.
Electronics hobbyist and open source software enthusiast with multiple contributions on Github.
Published App on the Play Store to control phone's brightness via the finger print sensor.