Christopher D. Sebesta

chris.sebesta@gmail.com ● chrissebesta.com ● github.com/zebesta
(713) 679-8582 ● 70 Maujer #2, Brooklyn, NY 11206

Android developer experienced in building new-to-the-world, patented products from the ground up. Experienced in solving technically challenging problems and designing, testing, and deploying successful solutions.

Java – Android – XML – Android Studio – Git – C – JSON – Google Play Services – COMSOL – LabView – CAD – Altium

PROFESSIONAL EXPERIENCE

ANDROID DEVELOPMENT, CONSULTING– New York, NY   12/15 - Present

- Android app ideation and development
  - NYC Bicycle Crash Map – An app to show motor vehicle collisions involving cyclists in NYC. Integration with NYC Open Data API, Google maps integration, Google play services, dynamic marker loading, SQLite database for information storage and offline data access, daily background data updates - https://play.google.com/store/apps/details?id=com.wordpress.chrissebesta.nyccyclemap
  - Garden Helper – A simple gardening information app. Dynamic layouts, transitions, and animations to leverage material design practices, fragment based design, and tablet/landscape UI optimization
- Full-stack development for the android platform using Android Studio
- Interaction with Google Maps, Google Play Services, Services, and UI Thread optimization for large data sets

PRODUCT ENGINEER, OXO – New York, NY   6/15 – 12/15

- Maintained and updated previously written C code for prototype testing, debugging and release
- Optimized code to fit revisions in limited flash memory space
- Lead electrical side of product design for kitchen electrics designing coffee makers, grinders, blenders, etc.
- Managed overseas manufacturing house for large scale production and design for manufacturing

ADVANCED PRODUCT DEVELOPMENT ENGINEER, 3M – Austin, TX   08/11 to 3/15

- Programmed and deployed automated data acquisition to increase productivity and accuracy of lab experiments
  - Replaced problematic, legacy control hardware and LabView interface with custom Java based UI and an Arduino connected to analog control board
  - Automated time stamped data collection between multiple control units, SoCs, and analog sensors to reduce man hours required to run electrical and thermal cycling tests on dielectric materials
- Modeled and analyzed product designs using COMSOL to reduce time and cost while avoiding wasted tooling
- Stress tested prototypes and products in the lab to gauge field compatibility and performance while ensuring compliance with industry standards (IEEE and IEC test methods)
- Led cross-disciplinary, multi-location research team to identify and create necessary materials and sensors for product development and fabrication
- Presented product designs and technical concepts at conferences to increase customer demand and knowledge
- Tested, optimized and deployed new to the world designs and non-linear stress control materials to improve product performance
- Root cause analysis on product failures to improve future design iterations
- Conducted prior art searches, technical claims writing, and patent review to protect intellectual property and avoid infringement during the development phase

PATENTS

- Power Cable Terminal Connection Device (WO2014209739), Voltage Sensing Device (WO2015095158), Voltage Sensor (WO2015095150), Capacitive Temperature Sensing for Electrical Conductor (WO2016065574)

EDUCATION

- **Bachelors of Science in Electrical Engineering |** UNIVERSITY OF TEXAS – Austin, TX (GPA: 3.88/4.0)
- University Honors, Spring 2008 – Spring 2011, Graduated cum laude
- Recipient of Janelle and Henry Holman Endowed Presidential Scholarship in Engineering, 2010-2011