Christopher D. Sebesta

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

Engineer 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.

JavaScript – Python – TypeScript – Angular 2 – HTML – CSS - Java – Android – Git – C – Google Maps – COMSOL – LabView – CAD

PROFESSIONAL EXPERIENCE

CODING SABBATICAL– New York, NY 01/16 - Present

- Recurse Center – Participant Fall 2016
- Privacy Badger – Contributed to open source software for a web tracker blocking chrome extension
- Citi Bike Route Planner – Angular 2 / Node / Express app to plan Citi Bike trips and get live station information related to starting and ending locations, uses the Google Maps and Citi Bike APIs
- Change Ringing – Python / Flask app to standardize change ringing notation and generate blue line diagrams and audio files from user input
- NYC Bicycle Crash Map – An android app showing motor vehicle collisions involving cyclists in NYC
- Plants DB – Angular 2 based MEAN stack to experiment with full stack development in JavaScript
- Developed Skills:
    - Full stack development with JS, Node, Express, Angular2, MongoDB, Python, Flask, NGINX, Heroku, etc.
    - Interaction with Google Maps, Google Play Services, APIs, and large external databases
    - Full-stack development for the android platform using Android Studio, Java, XML, etc.

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

- Maintained and developed C code for prototype testing, debugging and release for OXO electric products
- 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
- Presented product designs and technical concepts at conferences to increase customer demand and knowledge
- 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

- **Bachelor 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