Vishal Babu

CONTACT

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LANGUAGES AND TECHNOLOGIES

- Zuken, Altium, LabVIEW
- C++, Python, Java, JavaScript,
- Arduino, TI Sensor Tags, AutoCAD, SolidWorks, JMP

WORK EXPERIENCE

Tesla Motors   Sept 2015 — Dec 2015
Powertrain Test Enginner (Intern)

- Developed a custom part library on Zuken and Altium for 30 different electronic components (safety relays, actuators, contacters, fuse boxes, etc) used on the team's testers.
- Designed and built a tester for the Models S Large Drive Inverter on the Powertrain Assembly Line
- Implemented a new End-of-Line test protocol and tester for a new Tesla Energy product.

Apple Inc   (May - August 2014) Jan — May 2015

iPhone Manufacturing Design (SQE Intern)

- Characterized new testing methods to lower escape rate in iPhone production by 30%
- Formulated and actualized surface measurement parameters to improve quality of iPhone surfaces
- Developed new fixtures and IPQC test methods to capture process variations errors in vendor factories

BlackBerry   (Jan - Apr 2013) Sep — December 2013

Wireless Protocol Tester

- Analyzed & identified system-level integration issues with radio (**Fast Dormancy, CMAS, Handovers, Silent Redial, Cell Re-selection, and Call drops**) on BlackBerry native platforms
- Developed & executed Python test scripts on network simulators (**Anite SAS, Anritsu, Aeroflex, Spirent**) to evaluate devices in the integration or interoperability testing phase

Medicine for a Better Tomorrow   Jun 2010 — Present
Co-Founder

- Inventor of worlds first and only non-invasive preventative vaccine delivery solution (Formulation V720)
- Patent Holder (WO2012024767 - Google Patents Code)

TECHINCAL EXPERIENCE

- **Zuken and Altium:** Designed PCB schematics and created 30 new component schematics for custom parts
- **Python Scripting:** Wrote python scripts to validate telecom-carrier protocols on BlackBerry devices
- **Supplier Chain:** Traveled to international vendor sites (Foxconn-China, JGP-

China) for implementation of self developed processes for iPhone and iPod frames

- **Automated Shopping Cart:** Prototyped a new shopping cart that automatically scans items as they are placed in the cart using RFID technology
- **Arduino (Memory Game):** Programed an Arduino chip to help facilitate memory improvement

EDUCATION   System Design Engineering-Term 3B   Sept 2012 — Jun 2017
University of Waterloo