

# Vishal Babu

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## CONTACT

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## WORK EXPERIENCE

### Apple Inc

(May - August 2014) Jan — May 2015

iPhone/iPod Manufacturing Design (SQE Intern)

- Involved in establishing manufacturing criteria for new components in the iPhone using tools like DFM, Process Flow Charts, Process Capability analysis, Design of Experiments and First Article Inspections.
- Enhanced the surface finish for iPhone 6 device by identifying the optimal surface topologies
- Developed new test method to verify failure modes seen in verification tests early on in production reducing escape rate by 30%
- International travel to vendor sites for verification and validation

### 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
- Responsible for handling data throughput tests using **UDP and FTP** throughput cases on **IPv4 devices** across 3G and LTE networks

### 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)

## LANGUAGES AND TECHNOLOGIES

- C++, Java, JavaScript, Python
- Ruby on Rails, HTML, CSS
- Arduino, Logic gates and circuits, AutoCAD, SolidWorks

## TECHINICAL EXPERIENCE

- **Circuit Design:** Constructed a weight scale using a strain gage transducer to measure total weight of items placed onto the gage
- **Automated Shopping Cart:** Prototyped a new shopping cart that automatically scans items as they are placed in the cart using RFID technology
- **Workout App:** Created a Java application allowing user to create customized workout plans
- **Arduino (Memory Game):** Programed Arduino chip to help facilitate memory improvement by asking users to follow and repeat commands shown to them on a keypad
- **Website Design:** Javascript based website for a start-up charity fund at university

## EDUCATION

System Design Engineering-Term 2A

University of Waterloo

Sept 2012 — Jun 2017

Courses Taken:

- Circuits, Instrumentation, and Measurement
- Graphic Design (AutoCAD & SolidWorks)
- Linear Signals and Systems
- Materials Chemistry
- Project Management

## ACHIEVEMENTS

- First place in Canadian Computing Competition-District Level - 2012
- First Place in Business Plan and Scientific Development at RIM Entrepreneurial Competition -2010
- University President's Scholarship - \$2000
- Shad Valley University Scholarship - \$4000
- Member of the University break dance club as well as Muay Thai Fighting Club