Shaun Panjabi

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Education

University of California, Irvine — March 2014
Bachelor of Science, Electrical Engineering
With Specialization in Electro-optics & Solid State Devices

Experience

Medtronic — *Embedded Systems Software Engineer* — October 2014 – Now

- Responsible for executing test cases, documenting results and defects
- Performed Black-Box Automated Testing on Continuous Glucose Monitoring Devices
- Contributed to building large Python framework for testing embedded systems

Marvin Test Solutions — *Engineering Intern* — August 2013 – March 2014

- Developed software and designed military grade cable to collect key performance requirements for defense bomb rack
- Determined cause of hardware failure and helped implement a fix
- Researched specifications of different components and found best parts for given constraints
- Collected components on Bill of Materials for circuit card assembly

Projects

RFID Portable Shopping System — February 2014
Project in Senior Design, University of California Irvine
Developed a portable RFID reader that scans items with RFID tags, locates ID's in a database and generates a QR code containing receipt data of all items scanned.

Programmable-Depth Shift Register — December 2013
Internal Circuit Design Electronics, University of California
Designed basic logic gates from transistor level in Cadence. Used gates to build multiplexer, address decoders, and D-flip flop. Final design was tapped delay line that was 4 bits wide and 16 words deep.

AM Transmission of Audio — April 2012
Personal Project
Built a transmission system in which a signal from an audio device is modulated, demodulated and then amplified through a speaker.

Research

Indirect Recombination — November 2012
Research under Dr. Chin C. Lee (Ph.D), University of California Irvine
Researched what determines the rate of recombination in semiconductors. Studied about different types of recombination (i.e band-to-band, trap assisted, surface recombination). Analyzed physics of semiconductors at low-level.

Skills

Professional: Proficient with electronic lab equipment (i.e oscilloscope, function generator, multi-meter, power supply), PCB layout, BOM creation, RS-485, UART
Software: Familiar with Altium and Cadence (schematic and layout), Mathematica, MatLAB, Octave, Unix/Windows, AutoCAD, firmware, Big Data, Machine Learning, AutoCAD (CADD)
Languages: Python, C/C++, Assembly Language, HTML/CSS