

SAM ZECKENDORF

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(862) 220-0477

ELECTRICAL & COMPUTER ENGINEER

Education

Tufts University

Bachelor of Science in Electrical Engineering

May 2014

GPA: 3.70

Selected EE Coursework: Feedback-Control Systems, Communication Systems, Microprocessor Architecture & Assembly Code, Digital Logic Circuits, Analog Design I & II, Physics of Solar Cells, Data Structures, Usability Engineering

Selected Other Coursework: Linear Algebra, Discrete Mathematics, Multivariable Calculus, Differential Equations, Music Applications on the iPad, Game Design

Experience

Apple Inc.

Systems Integration Engineer (iPhone)

January 2013—September 2013

Cupertino, CA

Uncovered hardware bug resulting in power management unit malfunction, identified root cause, and helped provide final schematic and layout changes

Examined signal and power integrity in several subsystems, including Touch-ID. Identified issues resulting from flexible PCB shape, and helped provide alternative designs

Investigated audible noise resulting from piezoelectric properties of ceramic capacitors — designed and fabricated drive and measurement circuitry to stress components under different signal inputs, analyzed resultant audio data

Loopit Inc.

Software Engineer

2012, 2013

Cambridge, MA

Designed web service that aggregates product details across variety of websites and generates growing/adaptive lexicon for use in smart shopping tool

Designed smart comparison tool to bin products into similar categories; company was bought because of software efficacy

Solar Energy Research

Research Assistant

September 2010 — December 2012

Medford, MA

Investigated thin film Copper(I) and Copper(II) Oxide growth as semiconductor over ITO substrate

Created proof of concept electrodeposition circuit to show possibility of thin film solar cells powered by solar energy

Projects

imPact

Created iPhone music application "imPact: Remix", funded by Steinway Music

Squid

Xbox indie game, awarded Indie Gem award on Joystiq.com (affiliate of engadget)

Smart Hydroponics

Intelligent, learning, home-hydroponics system for city dwellers to grow fresh produce

Languages & Skills

Assembly

Objective-C

C/C++/C#/Java

Matlab

Python

Verilog/VHDL