Gerald M Nilles

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Objective

Apply my experience in the competitive smartphone market to develop disruptive technologies in a successful company with massive growth potential.

Work Experience

Motorola Mobility

Senior Staff Electrical Engineer April 2015−Present

Senior Electrical Engineer January 2013−April 2015

- Designed and validated power architecture for Droid Ultra/Maxx (2013), Droid Turbo (2014), and Moto X Play (2015).
- Designed and simulated power delivery network for all critical power rails.
- Filed a patent involving intelligent overnight smartphone charging behavior.
- Lead cross-functional battery life team and drove down current drain in order to meet marketing goals and maximize battery life satisfaction for end consumers.
- Supported mass production by quickly finding the root cause of uncovered issues and identifying short and long term solutions.
- Used schematic and PCB CAD tools when designing multilayer PCBs.

BlackBerry (formerly Research In Motion)

Baseband Design Engineer January 2010−January 2013

- Designed and validated power architecture for BlackBerry Q5 smartphone.
- Designed and validated user interface, backlight, and optical sensor circuits for BlackBerry Curve 9360.

University of Illinois Power Electronics Laboratory

Undergraduate Research Assistant March 2009−December 2009

- Studied, designed and tested various topologies for minimizing current ripple and maximizing efficiency of photovoltaic panels.
- Findings published at the Applied Power Electronics Conference and Exposition.

Philips Lighting Electronics

Design Engineering Intern, Electronic Fluorescent Lighting May 2009−August 2009

Invensys Appliance Controls

Electrical Engineering Intern May 2007−August 2007

Education

University of Illinois at Urbana-Champaign

Bachelor of Science in Electrical Engineering August 2005−December 2009

- Major: Electrical Engineering − Minor: Computer Science
- Emphasis in power electronics and electric machines
- GPA 3.73/4.00

References available on request