Gerald M Nilles

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Objective

To obtain an electrical engineering position.

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.
- 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 root-causing 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.

Philips Lighting Electronics

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

- Reverse engineered a competitor's ballast by drawing its schematic, creating its build of materials, and estimating its production BOM cost.

Invensys Appliance Controls

Electrical Engineering Intern May 2007−August 2007

- Diagnosed field returns using thermal camera and thermocouples.

Education

University of Illinois at Urbana-Champaign

Bachelor of Science in Electrical Engineering GPA 3.73/4.00

- Major: Electrical Engineering − Minor: Computer Science
- Emphasis in power electronics and electric machines
- Graduated December 2009

References available on request