Gerald M Nilles

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Objective

To obtain an electrical engineering position in consumer electronics.

Work Experience

Research In Motion

Baseband Design Engineer   January 2010−Present

- Designed and validated power architecture for upcoming BlackBerry smartphone.
- Designed and validated user interface, backlight, and optical sensor circuits for BlackBerry Curve 9360.
- Wrote and executed design verification plans for all responsible circuits.
- Used schematic and layout CAD tools when designing multilayer PCBs.
- Designed and simulated PCB layout for device's power delivery network.
- Travelled to support factory during early prototype builds and mass production ramp.
- Worked with 3rd party vendors to maximize quality of custom parts.

University of Illinois Power Electronics Laboratory

Undergraduate Research Assistant   March 2009−December 2009

- Studied various topologies for minimizing current ripple and maximizing output power of photovoltaic panels.
- Designed and tested theoretical photovoltaic topologies.

Philips Lighting Electronics

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

- Reverse engineered a competitor's ballast by drawing its schematic in CADStar, creating its build of materials, and estimating its production BOM cost.
- Diagnosed sources of failure in defective ballasts.
- Performed efficiency analysis while finding major sources of power loss in a ballast seeking NEMA Premium certification.

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