

Objective

To obtain a hardware engineering position with a concentration in electrical design for a dynamic organization with a vertical business model that will further expose me to all aspects of engineering design.

Work Experience

Test/Component Engineer – Gables Engineering

Coral Gables, Florida 5-08 to Present

- Support transition of panel testing from engineering to production
- Develop software to analyze 429 message transmission to identify panel functionality

Senior RF Engineer – Motorola – Advanced Technology

Plantation, Florida 1-06 to 5-08

- Design schematics and layout of printed circuit boards to use as test platforms for new IC development.
- Develop automated tests racks using Labview to accelerate IC validation after each design cycle.
- Specify layer-1 timing and validate using a pattern generator/logic analyzer to anticipate issues prior to software availability.
- Validate WiMAX modem software functionality after each release per generated test plan.
- Troubleshoot test platform to differentiate between IC and board layout issues.
- In depth knowledge of electrical test equipment such as network, spectrum and logic analyzers.

System Engineer – Boeing – 787 Development

Everett, Washington 4-2005 to 1-2006

- Establish system engineering requirements for primary power distribution panels of 230V AC, 115V AC, and 28V DC buses.
- Coordinate circuit breaker allocations and connector distribution based on cable routing and required load amperage.
- Define test methodology and requirements for panel functionality during plane assembly.

Master's Thesis Project – RF Oscillator Design

Coral Gables, Florida 8-2003 to 7-2004

- Performed a statistical analysis and design of a 2 GHz dielectric resonator oscillator, to determine those components that are crucial in obtaining a high product yield during mass production using computer-aided design techniques.

Teaching Assistant – Electronics Laboratory

Coral Gables, Florida 1-2001 to 12-2003

Education

University of Miami

Coral Gables, Florida

Master of Science, Electrical Engineering, July 2004, GPA 3.97

University of Miami

Coral Gables, Florida

Bachelor of Science, Biomedical Engineering with Electrical Orientation, December 2001

Minors: Math and Chemistry

National Instruments

Miami, Florida

Labview Coursework

Certified Labview Developer (94%)

Computer Skills

Matlab

C++

Labview

Excel Visual Basic

Mentor Graphics

Advanced Design Systems