Jeffrey Charles Lambert

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OBJECTIVE: To support development and design of RF and analog electrical and communications systems.

EXPERIENCE

Research Assistant - Electric Fish Lab (Biology), Center for Microgravity Research (Physics)
University of Central Florida, Orlando, FL — January 2016 - Present

- Development of LabVIEW tools for analysis of knifefish electric organ discharge (EOD) recordings
- Selection of and development for 32bit microcontroller code for use in a wireless communications system
- Maintenance and repair of field instruments and equipment

Senior Test Development Engineer
Jabil Circuit, St. Petersburg, FL — July 2015 - January 2016

- Responsible for design of functional test (FVT) and boundary scan (JTAG) test stations
- Design of test fixtures for functional (FVT) test stations which include pneumatic controls and safety interlocks

Staff Test Engineer
National Instruments, Austin, TX — January 2012 – June 2015

- Support new product introduction (NPI) of RF products including NI PXIe-5644R and PXIe-5645R VST (Vector Signal Transceiver), NI-MCT (Mobile Communications Tester) and NI-STS (Semiconductor test system)
- Develop and deploy VNA (Vector Network Analyzer) measurement techniques on the NI-VST, NI-MCT and NI-STS using PXI VNAs and custom assembled VNA hardware
- Develop, refactor and verify automated test code and sequences using LabVIEW, LabVIEW FPGA, and TestStand
- Write and maintain test plans and test specifications for new RF products during the NPI process

Research Assistant
University of Central Florida, Orlando, FL — April 2008 – December 2011

- Design of hardware for monitoring of knifefish electric organ discharge (EOD)
- Develop LabVIEW applications for recording, analysis and monitoring of knifefish activity
- Maintain and operate research instrumentation in lab and in the field

EDUCATION

M.S., Electrical Engineering — January 2009 – May 2011
University of Central Florida, Orlando, FL
GPA: 3.6, RF and communications concentration, thesis track
Courses: Biomedical Effects and Applications of Electromagnetic Energy, Random Processes, RF & Microwave Measurement Techniques, Operational Amplifiers

May 2003 – May 2008

B.S., Electrical Engineering
University of Central Florida, Orlando, FL
Courses: Microwave Engineering, Electrical Machinery, MEMS devices and applications

ACTIVITIES

- IEEE Instrumentation and Measurement Society Vice Program Chair, 2014
- Licensed Amateur Radio Operator (Extra class, Callsign: K1VZX)

SKILLS

- Applications: LabVIEW, TestStand, Microwave Office, SolidWorks Electrical, Altium Designer, Mentor Graphics
- Programming: Certified LabVIEW Architect (CLA), Certified TestStand Developer (CTD)
- Hardware: PCB fabrication and layout, circuit design and prototyping, Universal Software Radio Peripheral (Version 1), RF test and measurement with network analyzers, oscilloscopes, and spectrum analyzers of various models, GPIB and RS232 remote control, SPI/I^2C, JTAG boundary scan, NI M-series DAQ, PXI modular instruments