

## Jeffrey Charles Lambert

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**Objective:** <insert objective here>

**National Instruments: “Rookie of the Year”, 2013.** Selected in a group of 5 people out of a team of 70.

### SKILLS

- Programming: LabVIEW, LabVIEW FPGA, (X)HTML, PHP, Visual Basic, Python, Embedded C.
- Applications: Word, Excel, Outlook, Powerpoint.
- Windows, Linux (Debian), Unix (OpenBSD).
- Hardware: programmable network analyzers, oscilloscopes, spectrum analyzers, vector signal transceiver, software defined radio (SDR), signal generators, power meters, GPIB and RS232 control, SPI/I<sup>2</sup>C, NI DAQ (CompactDAQ, DAQmx), PXI/MXI.

### LabVIEW Engineer/Research Assistant

*University of Central Florida, Orlando, FL*

May 2020 - Present

- Completion of software suites and maintenance of LabVIEW source running from 10-11 years ago. Version control using Git.
- Prototyping a new schematic before we proceed with publishing.

### RF Test Engineer

*Hughes Networks, Germantown, MD*

April 2019 – June 2019

- Began development of a soft panel to control hardware under development using LabWerx LabSSH API
- Began development of functional tests for a production tester for a modem receiver interface using Rhode & Schwarz test equipment

### Senior Test Engineer

October 2018 – March 2019

*BCS Automotive Interface Solutions, Auburn, NY*

- Improved first pass yield of a wireless receiver for tire pressure monitoring and remote keyless entry systems by 5-10% and brought tester from 1-2 test chambers of operation to 3 consistently.
- Improved automated LabVIEW and TestStand test code by reviewing test algorithms and ensuring proper operation of tests.
- Supported operation of various miscellaneous test stations to aid in operations. Miscellaneous training such as arc flash training.

### LabVIEW Engineer

*University of Central Florida, Orlando, FL*

January 2016 – May 2018

- Developed and maintained a suite of 12 LabVIEW applications for data acquisition, statistics generation, and analysis of south American electric knife fish electric organ discharge (EOD) waveforms.
- Collaborated with team members to conduct testing of software and ensure proper function of software from data acquisition to statistics.
- Selected a low power ST microcontroller for a low earth orbit satellite and prototyped basic communications protocols in C.

### Senior Systems Integration/Test Engineer

*Lockheed Martin, Orlando, FL*

August 2017 – December 2017

- Supported the Javelin missile project refactoring HTBasic test code to modern TestStand sequences with LabView test code on the backend.
- Installed LabVIEW Developers Suite on controller laptops for laboratory development.

## Senior Test Development Engineer

*Jabil Circuit, St. Petersburg, FL*

July 2015 - January 2016

- Implemented a JTAG boundary scan procedure for a high voltage power supply controller board.
- Selected rack and stack test equipment for an automated test station to support a high voltage power supply in a bed of nails test fixture.

## Staff Test Engineer

*National Instruments, Austin, TX*

January 2012 – June 2015

- Developed the Medusa test solution, a custom approach to making scalar s-parameter measurements from bridge couplers and RF generators and analyzers, and integrated it into one of National Instrument's existing RF test stations.
- Debugged a problem with the switches inside automatic VNA calibration standards that was causing an offset with  $S_{21}$ ,  $S_{12}$  measurements.
- Assisted with the manufacturing verification of the PXIe-5644R VST before release and supported verification efforts.

## Electrical Engineer

*University of Central Florida, Orlando, FL*

April 2008 – December 2011

- Designed the EOD Machine, a piece of hardware that integrates with LabVIEW software for the capturing of electric organ discharges in an automated way using electrodes in a tank and a fixed net.
- Designed the SARD (Summing and rectification device), which integrates with LabVIEW software for capturing the pulse rate of electric fish.

## ACTIVITIES

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

## 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, RF & Microwave Communications Systems, Operational Amplifiers

## B.S., Electrical Engineering

May 2003 – May 2008

*University of Central Florida, Orlando, FL*

Courses: Microwave Engineering, Electrical Machinery, MEMS devices and applications

## B.S., Biology (General Track)

January 2020 - Present

*University of Central Florida, Orlando, FL*