

LabVIEW/Software Engineer - Jeffrey Charles Lambert

Orlando, FL

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OBJECTIVE: To work as a software engineer and learn C/C++/C# as well as utilize my LabVIEW and RF skills.

SKILLS

- Programming: LabVIEW, LabVIEW FPGA, TestStand, Visual Basic, CVS, SVN, Git.
- Applications: Word, Excel, Outlook, PowerPoint.
- Windows, Linux (Debian/Ubuntu), Unix (OpenBSD).
- Hardware: programmable network analyzers, oscilloscopes, spectrum analyzers, communications analyzer, vector signal transceiver, software defined radio (SDR), signal generators, power meters, GPIB and RS232 control, SPI/I²C, NI DAQ (CompactDAQ, DAQmx), PXI/MXI.

LabVIEW/Software Engineer

May 2022 – April 2023

Astronics Test Systems, Orlando, FL

- Adding/enhancing support of automated test suites for land-mobile radios (LMRs) built into the Freedom R8000 communications analyzer application executable.
- CVS/SVN source code control for LabVIEW code.
- Certified LabVIEW Developer certification renewal.

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.
- Git version control for LabVIEW source code.

LabVIEW Engineer

January 2016 – May 2018

University of Central Florida, Orlando, FL

- 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

August 2017 – December 2017

Lockheed Martin, Orlando, FL

- 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

July 2015 - January 2016

Jabil Circuit, St. Petersburg, FL

- 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

January 2012 – June 2015

National Instruments, Austin, TX

- 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 S₂₁, S₁₂ measurements.
- Assisted with the manufacturing verification of the PXIe-5644R VST before release and supported verification efforts.

Electrical Engineer/Research Assistant

April 2008 – December 2011

University of Central Florida, Orlando, FL

- Designed the EOD Machine, hardware which integrates with LabVIEW software for the automated recording of South American electric knife fishes' electric organ discharges (EODs) using electrodes, an ordinary fish tank and a net.
- Designed the SARD (Summing and rectification device), which integrates with LabVIEW software for logging the EOD pulse rate of electric fishes.

ACTIVITIES

- Licensed Amateur Radio Operator (Extra class, Call sign: K1VZX).
- IEEE Instrumentation and Measurement Society Vice Program Chair, 2014.
- Volunteer Lab Associate for the Crampton Lab at UCF writing LabVIEW code and executables, designing and building hardware, and mentoring/managing students (2009-2023).

CERTIFICATIONS

- Certified LabVIEW Developer (April 2023)

AWARDS

- National Instruments: "Rookie of the Year", 2013. Selected in a group of 5 people out of a team of 70.

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, 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