

James R. Lund

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Professional Profile

Hands-on Electrical Engineer, experienced in managing multiple projects, hardware and software functional testing, analog circuit design, analog and digital circuit analysis, system and circuit troubleshooting, and project risk assessment. Certified Biometrics Security Engineer, CompTia Security Plus Certified (Expired), Novell Certified Linux Administrator (Expired). Experienced in using Microsoft products, including Outlook, Word, Excel, Visio and PowerPoint. Experienced in circuit schematic capture and simulation using OrCad Capture/PSPICE and LT SPICE, some experience with MENTOR Graphics.

Professional Experience

Molex, INC.

August 2013 – September 2017

Electrical Test Engineer

- Manage testing for multiple projects for automotive customers, working with customers and design engineering to create DVP&R, and DAPSTR test plan documents.
- Supported reliability lab testing efforts by providing required documents, cabling and connectors for testing in a timely fashion.
- Performed DV and PV test result data analysis, failure analysis and 8D creations for failed test units.
- Performed USB “eye” diagram testing for both development and factory/ field failure analysis.
- Troubleshoot both factory and field failures at the component level for power supply, USB, SD card (USB hub chip operation) and audio function failures.
- Performed SMT/SMD parts A/B/A swaps to confirm component failures, as required by parts suppliers.

CertFirst, inc.

December 2012- April 2013

Intern

- Demonstrated fingerprint, Facial and Voice recognition technologies for students.
- Taught the lecture for the Certified Biometrics Security Engineers Bootcamp.
- Taught the lecture for the CompTia Security Plus Course.
- Setup student computers with VM ware Virtual Player and SUSE Linux 11.0 distribution from Novell for labs and classes and assisted students with the Linux labs.

Würth Electronics Midcom, Elgin, IL

June 2010 to February 2012

Power Magnetics Field Application Engineer

- Reporting to both the FAE Manager of Midcom and the Regional Sales Manager, liaised with IC vendor Application Engineers in the central region of the U.S. to provide them

- custom magnetic component designs and samples for use in their reference designs.
- Acted as the point of contact for internet based inquiries in North America to provide them with new custom magnetic component designs.
- Interfaced with existing customers to provide solutions for custom magnetic components.
- Produced and presented technical education Power Point presentations to the national sales team and fellow FAE's at conferences.

Norlux Corporation, Carol Stream, IL

July 2008 to February 2009

Program Manager

- Reporting to the Owner and General Manager of Norlux, prepared sales quotes and project timelines for LED lighting products. Confirmed and entered customer orders.
- Acted as a liaison between customers, engineering, manufacturing and sales and marketing, providing both business and technical product support for LED lighting products.
- Traveled to customer locations for sales and support visits.

Vogt-Electronic of North America

November 2006 to June 2008

Field Application Engineer

- Reporting to the Vice President of Sales and Marketing, followed up on sales leads and interfaced with prospective customers and engineering to provide quotes as well as designs and samples of new custom magnetic components.
- Acted as liaison between customers in North America and engineering providing answers to technical questions.
- Visited customers providing the sales team technical assistance during presentations.

Motorola ACES Telematics group, Deer Park, IL

May 2002 to November 2006

Continental Automotive acquired Motorola Automotive July 2006

Senior Design Engineer

- Created test plans for functional qualification testing for the Daimler Chrysler LCT06.2 prototype and pilot units.
- Built and maintained BOM's (wrote ECO's) and updated other critical documentation. Flashed prototype and pilot units with new software, performed functional and environmental testing.
- Troubleshoot factory returns (both analog and digital circuitry failures).
- Created a **Design Failure Mode and Effects Analysis** and worst case analysis for the power supplies, and the "Network Access Device Interface" (embedded cell phone).
- Performed parametric post testing of model year 2005 sixth generation "ON STAR"™ product units subjected to environmental testing.
- Coordinated test plan development and development testing of the model year 2005 sixth generation "ON STAR"™ product.
- Created a **Design Failure Mode and Effects Analysis** and a Worst Case Circuit Analysis utilizing PSPICE for the analog and digital circuitry interfacing to optical bus circuitry (**MOST** bus) incorporated into the Daimler Chrysler **Universal Handset Interface** product.

Westell, Inc. Aurora, IL

March 1997 to August 2001

Design Engineer I and Design Engineer II

- Engineered and tested a fly-back type switching power supply for span powering of T1 line repeaters.
- Created a new central office repeater incorporating the new span power supply into a cost reduced Network Interface Unit in a smaller form factor.
- Assisted in cost reducing a two wire HDSL central office card. Included functional test verification of a new ASIC and test/debug of two newly designed Fly-back power supplies.
- Researched DS3 transmission standards and tested the capabilities of O.E.M equipment for re-sale. My research resulted in Westell contracting to re-sell the O.E.M equipment.

Knowles Electronics, Inc. Itasca, IL

August 1992 to March 1997

Member of Technical Staff & Lab Technician

- Worked full-time at Knowles Electronics as an Electronics Lab Technician while earning my BSEE at night. After graduation, I was promoted to "Member of Technical Staff".

Education

B.S. Electrical Engineering, Illinois Institute of Technology, Chicago, IL
Novell Certified Linux Administrator, CertFirst Corporation, OakBrook IL
Certified Biometric Security Engineer, BioCertification, inc., OakBrook, IL
CompTia Security+ Certification, CertFirst Corporation, OakBrook IL