

# Derek Welty

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## Education

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### Missouri University of Science & Technology

MS IN ELECTRICAL ENGINEERING

GPA: 4.0/4.0

Rolla, MO

August 2013 – May 2018

### Missouri University of Science & Technology

BS IN ELECTRICAL ENGINEERING, MINOR IN MATHEMATICS

GPA: 3.93/4.0

Rolla, MO

August 2008 – December 2012

## Experience

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### Garmin International

SENIOR DESIGN ENGINEER

- Designed and developed complex PCBs with analog, digital, high-speed, and RF circuitry
- Supported automotive mass production consumer infotainment electronics
- Project Engineer leading system design and coordinating inter-disciplinary collaboration
- Worked and visited with factory team in Taiwan to design for testing and manufacturability
- Tested and debugged hardware/software with use of proficient troubleshooting skills

Olathe, KS

March 2017 – Present

### DOE National Security Campus, Managed by Honeywell

ELECTRICAL ENGINEER III

- Lead design engineer implementing hardware and software solutions for automated test equipment (ATE)
- Created test plans and product specifications with detailed stimuli and signal criteria
- Interfaced with government customers and supported earned value management project planning
- US Government Security Clearance

Kansas City, MO

January 2013 – March 2017

### Sprint Nextel Corporation

NETWORK ENGINEER INTERN

- Developed VoIP Android IMS client using Java
- Debugged client/server communications by analyzing network packets
- Utilized protocols such as UDP, SIP, and RTP

Overland Park, KS

May 2012 – August 2012

### Cargill Corn Milling Inc

PRODUCTION MANAGEMENT ENGINEER CO-OP

- Served as a project engineer/manager for various installations
- Focused on power, automation, and maintenance
- Hired and led a team of contractors to carry out construction projects

Eddyville, IA

May 2011 – December 2011

### Lumate, LLC

UI/UX DEVELOPER

- Created in-house and customer specific graphics for mobile apps (Android, iOS)
- Backend web development (Python, jQuery, HTML)
- Interfaced directly with customers creating logos, flyers, posters, apparel designs, and brochures.

St. Louis, MO

October 2010 – March 2015

## Skills

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**Programming:** VB.NET, Python, Java, MATLAB, Powershell, Github, Subversion, TestStand, ADB, VISA

**Lab Equipment:** Oscilloscopes, DMM, VNA, power supplies, multi-meters, Raspberry Pi, Arduino, PXI

**Software Tools:** Schematic capture, PCB layout, Mentor Graphics, CADSTAR, OrCad, SPICE, Solidworks

**Special Training:** Advanced GNSS/GPS, Radar Systems Certificate, MIL-STD 1553

**Graphic Design:** Photoshop, Illustrator, LaTeX

**Miscellaneous:** MS Office, MS Project, Excel, Android, Linux, Windows, Jira

## Awards

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2016 **Outstanding Engineer Award**, Honeywell Aerospace