

# Derek C. 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

Aug 2013 – May 2018

### Missouri University of Science & Technology

BS IN ELECTRICAL ENGINEERING, MINOR IN MATHEMATICS

GPA: 3.93/4.0

Rolla, MO

Aug 2008 – Dec 2012

## Experience

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### Garmin International

SENIOR DESIGN ENGINEER

- Designed and developed complex PCBs with analog, digital, high-speed, and RF circuitry
- Conceptualized and materialized automotive mass production consumer infotainment electronics
- Project Engineer leading system design and coordinating interdisciplinary collaboration
- Directed and collaborated with factory team in Taiwan to design for testing and manufacturability
- Tested and debugged hardware/software issues for technical root cause and corrective actions

Olathe, KS

Mar 2017 – Present

### DOE National Security Campus, Managed by Honeywell

ELECTRICAL ENGINEER III

- Lead test engineer architecting/implementing hardware/software solutions for scalable test infrastructure
- Defined test plans and electrical verification methodologies for board level and top level systems
- Interfaced with government customers and supported earned value management project planning
- US Government Security Clearance

Kansas City, MO

Jan 2013 – Mar 2017

### Sprint Nextel Corporation

NETWORK ENGINEER INTERN

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

Overland Park, KS

May 2012 – Aug 2012

### Cargill Corn Milling Inc

PRODUCTION MANAGEMENT ENGINEER CO-OP

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

Eddyville, IA

May 2011 – Dec 2011

### Lumate, LLC

UI/UX DEVELOPER

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

St. Louis, MO

Oct 2010 – Mar 2015

## Skills

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**Programming:** VB.NET, Python, Java, MATLAB, Arduino, Github, Subversion, TestStand, ADB, VISA  
**Lab Equipment:** Oscilloscopes, multimeters, network analyzers, power supplies, 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:** Adobe Photoshop, Adobe Illustrator, LaTeX, HTML, Bootstrap  
**Miscellaneous:** MS Office, Android, Linux, Windows, Atlassian suite

## Awards

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2016 **Outstanding Engineer Award**, Honeywell Aerospace