# Derek Welty

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| Education | | |
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| | Missouri University of Science and Technology | May 2018 |
| | **M.S. Electrical Engineering** | **GPA: 4.00/4.00** |

Graduate Certificate: Network Centric Systems
*Coursework: Stochastic Signal Analysis, Digital Network Design, Wireless Networks, Network Performance Analysis and Modeling, Resilient Networks, Power Electronics, Advanced Electromagnetics, Microwave Engineering, Analog CMOS Design*

| | Missouri University of Science and Technology | Dec 2012 |
|---|---|---|
| | **B.S. Electrical Engineering,** *summa cum laude* | **GPA: 3.93/4.00** |

Minor: Mathematics

Honors & Activities: Eta Kappa, Nu, IEEE,
Student Union Board – **Director of the Year,**
NFIB – **Young Entrepreneur Scholarship Recipient**

**Experience**

| | Garmin International | Olathe, KS |
|---|---|---|
| | **Senior Design Engineer** | Mar 17 - Present |

- Designed and developed complex analog, digital and RF circuits for Marine and RV consumer electronics
- Worked with factory team to understand manufacturability
- Tested hardware with use of proficient troubleshooting and EE skills

| | DOE National Security Campus, Managed by Honeywell | Kansas City, MO |
|---|---|---|
| | **Engineer III Electrical** | Jan 13- Mar 17 |

- Leads technical tester design projects implementing automated test solutions for production and development activities
- Supports custom tester development projects, interfacing with customers, executing project plans and supporting production
- Supports project planning and manages project resources, including multiple individuals and disciplines, to achieve quality, delivery, and cost objectives
- US Government Security Clearance

Honors & Activities: Six Sigma Green Belt,
2016 Honeywell Aerospace – **Outstanding Engineer Award**

| | Sprint Nextel Corporation | Overland Park, KS |
|---|---|---|
| | **Network Engineer Intern** | May 12- Aug 12 |

- Developed an Android IMS client for VoIP purposes
- Debugged client/server communications by analyzing packets (Wireshark)
- Utilized protocols such as UDP, SIP and RTP

| Experience | Cargill Corn Milling Inc. | | | Eddyville, Iowa |
| | **Production Management Engineer Co-op** | | | May 11- Dec 11 |

- Served as a project manager for various installations
- Focused on power and automation
- Hired and managed a team of contractors

Lumate, LLC                                                                          St. Louis, MO
**UI/UX Developer**                                                           Oct 10- Mar 15

- Created in-house and customer specific graphics for mobile apps (Android, iOS)
- Web Development (Python, jQuery, HTML)
- Interfaced directly with customers creating logos, flyers, posters, t-shirt designs and brochures.

Skills

| MS Office | SPICE | MATLAB | Simulink | EMC/EMI |
|---|---|---|---|---|
| Java | VB.NET | C++ | Python | Windows |
| Linux | Github | Subversion | OSI Model | Mentor Graphics |
| Solidworks | Visual Studio | MS Project | OrCad | PCB Design |
| FPGA | CPLD | Embedded | VoIP | SIP/RTP |
| Visio | SPI | RF | ADC/DAC | Analog Design |
| Multi-meters | DMM | Arduino | RPi | Oscilloscopes |