

# Derek Welty

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Education	Missouri University of Science and Technology <b>M.S. Electrical Engineering</b> Graduate Certificate: Network Centric Systems <i>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</i>	May 2018 <b>GPA: 4.00/4.00</b>
	Missouri University of Science and Technology <b>B.S. Electrical Engineering, <i>summa cum laude</i></b> Minor: Mathematics	Dec 2012 <b>GPA: 3.93/4.00</b>
	Honors & Activities: Eta Kappa, Nu, IEEE, Student Union Board – <b>Director of the Year</b> , NFIB – <b>Young Entrepreneur Scholarship Recipient</b>	
Experience	Garmin International <b>Senior Design Engineer</b> <ul style="list-style-type: none"><li>Designed and developed complex PCBs with analog, digital, and RF circuitry for automotive mass production consumer electronics</li><li>Worked and visited with factory team in Taiwan to design for manufacturability</li><li>Tested and debugged hardware with use of proficient troubleshooting and EE skills</li><li>Project engineer leading individuals across multiple disciplines</li></ul>	Olathe, KS Mar '17 - Present
	DOE National Security Campus, Managed by Honeywell <b>Engineer III Electrical</b> <ul style="list-style-type: none"><li>Technical tester design engineer implementing hardware and software automated test solutions for production and development</li><li>Led custom tester development projects, interfacing with customers, executing project plans, and supporting earned value management</li><li>Supports project planning and manages project resources, including multiple individuals and disciplines, to achieve quality, delivery, and cost objectives</li><li>US Government Security Clearance</li></ul>	Kansas City, MO Jan '13- Mar '17
	Honors & Activities: Six Sigma Green Belt, 2016 Honeywell Aerospace – <b>Outstanding Engineer Award</b>	
	Sprint Nextel Corporation <b>Network Engineer Intern</b> <ul style="list-style-type: none"><li>Developed an Android IMS client for VoIP purposes</li><li>Debugged client/server communications by analyzing raw packets</li><li>Utilized protocols such as UDP, SIP and RTP</li></ul>	Overland Park, KS May '12- Aug '12

Experience	Cargill Corn Milling Inc.					Eddyville, Iowa
	<b>Production Management Engineer Co-op</b>					May '11- Dec '11
	<ul style="list-style-type: none"> <li>Served as a project manager for various installations</li> <li>Focused on power and automation</li> <li>Hired and managed a team of contractors</li> </ul>					
	Lumate, LLC					St. Louis, MO
	<b>UI/UX Developer</b>					Oct '10- Mar '15
	<ul style="list-style-type: none"> <li>Created in-house and customer specific graphics for mobile apps (Android, iOS)</li> <li>Web Development (Python, jQuery, HTML)</li> <li>Interfaced directly with customers creating logos, flyers, posters, t-shirt designs and brochures.</li> </ul>					
Skills	MS Office	SPICE	MATLAB	Python	EMC/EMI	
	Java	VB.NET	C++	Linux	Windows	
	Android	Github	Subversion	CADSTAR	Mentor Graphics	
	Solidworks	Visual Studio	MS Project	OrCad	PCB Design	
	FPGA	CPLD	Embedded	VoIP	SPI/I2C	
	Visio	Wi-Fi	Bluetooth	Powershell	Analog Design	
	Multi-meters	DMM	Arduino	RPi	Oscilloscopes	