

EDUCATION	University of Illinois at Urbana-Champaign M.S. Electrical and Computer Engineering <ul style="list-style-type: none">Member of the UIUC Embedded Systems Lab under Professor Tarek Abdelzaher.	August 2014 – Present Expected Graduation – May 2016
	University of Illinois at Urbana-Champaign B.S. Electrical Engineering, Minor in Computer Science with Honors <ul style="list-style-type: none">Cumulative GPA – 3.58/4.00Technical GPA – 3.82/4.00James Scholar Relevant Coursework <ul style="list-style-type: none">Computer Systems EngineeringComputer Organization & DesignDistributed SystemsReal Time & Embedded SystemsCommunication NetworksEmbedded DSP	August 2010 – May 2014
WORK	Graduate Research Assistant <i>Embedded Systems Group: Green Data Centers Project, Urbana IL</i> <ul style="list-style-type: none">Refining the external usage API for a Green Data Center test bed funded by NSF.Developing system models & control algorithms to minimize energy consumption with non-constant work load.	May 2014 – Present [greendatacenters.web.engr.illinois.edu]
	Flight Software Engineering Intern – Falcon Team <i>Space Exploration Technologies, Hawthorne, CA</i> <ul style="list-style-type: none">Worked on several projects involving vehicle code and associated code bases with the goal of rapid & reliable launch.Designed and shipped a new test architecture for navigation software components, saving future engineering time.	May 2014 – August 2014 [spacex.com]
	LabVIEW Student Ambassador for UIUC <i>National Instruments, from Urbana IL</i> <ul style="list-style-type: none">Taught LabVIEW Core I & II to UIUC Students for of CLAD certification. Promoted LabVIEW use among the university population.	August 2013 – May 2014 [ni.com/academic/ambassadors]
	RF R&D Software Engineer – Internship <i>National Instruments, Austin TX</i> <ul style="list-style-type: none">Designed, developed, tested, and documented customer facing Slot Power measurement FPGA IP and usage examples for the NI PXIe-5644R/45R Vector Signal Transceiver using LabVIEW and LabVIEW FPGA.Improved test times down to near real-time performance (sub 50ms overhead).	May 2013 – August 2013 [ni.com]
	Software Developer for LTE Testing Tools – Co-Op <i>Alcatel-Lucent, Naperville IL</i> <ul style="list-style-type: none">Designed & developed a new, comprehensive testing suite tool to assist ALU LTE Test Engineers by automating LTE Network Tests and creating Network Health Reports.	May 2012 – May 2013 [alcatel-lucent.com]
SKILLS	<ul style="list-style-type: none">Proficient in C++, C, Python, Arduino & Variants, JavaScript, VHDL, MySQL, x86 Assembly.Certified LabVIEW Developer; Experience working on FPGA based DAQ Applications.Experience in Object Oriented Design, Embedded Programming, Java for Android Apps, & Full Stack Web Programming.	
PROJECTS	Pipelined LC3-BX Processor Model	Spring 2014
	<ul style="list-style-type: none">Worked on a 3 person team to design, build and test a classic RISC 5 stage pipelined LC3-B Processor model in VHDL with a two level cache, an extended LC3-X ISA, a Branch Target Buffer, performance counters, and a sophisticated auto-test system.Won 2nd Place in the project design competition, scored on performance of matrix multiplication code.	
	nextWAVE [kashev.github.io/nextWAVE]	Spring 2014
	<ul style="list-style-type: none">Worked on a 4 person team to create a ‘smart microwave’ prototype for HackIllinois, which crowd-sourced cook times via barcode scanned by Android app, was controllable via WiFi, and had an accompanying Pebble smart-watch app.Featured on popular blog Hack A Day, Firebase & OctoPart company blogs, & got 13K views on our demo on YouTube.	
	Muxxy – A HiFi Audio Switch	Fall 2013
	<ul style="list-style-type: none">Led a 3 person team to design, build, and test a high fidelity, Bluetooth capable, remote controlled audio switch.Worked on the Energia embedded C++ for user hardware input & I²C communication, an Android IR app on the HTC One (m7) for remote control, & LabVIEW myDAQ Code to automate testing of frequency response along analog signal path.	
	Wireless Neural Prosthesis Control	Spring 2013
	<ul style="list-style-type: none">Worked as embedded software developer with BMES to interface with a neural headset to wirelessly control a prosthetic arm.Won 1st Place at UIUC EOH in Theme Category: <i>Imagine the Impossible</i>.	
	dotfiles, EOH Projects, a PGA2310 Arduino Library, Tetris Attack, and more...	[github.com/kashev]
OTHER	HKN Director of Initiate Affairs	Fall 2012 – Spring 2014
	<ul style="list-style-type: none">Organized service and social events to build community among initiate class.100 % Initiate class growth in Spring 2013, 100 % Graduate Student Initiate class growth in Fall 2013	
	Eagle Scout [scouting.org] [troop98.org]	June 2010
	Bassist, Vocalist, & Equipment Manager for Illini Contraband	Fall 2010 – Present