
EDUCATION	University of Illinois at Urbana-Champaign M.S. Electrical and Computer Engineering <ul style="list-style-type: none">Cumulative GPA – 3.75/4.00Research Assistant in the UIUC Embedded Systems Lab under Professor Tarek Abdelzaher.Developing system models & control algorithms for server allocation to minimize energy usage. 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 & DesignReal Time & Embedded SystemsCommunication NetworksDistributed SystemsEmbedded DSP	August 2014 – Present Expected Graduation – May 2016 August 2010 – May 2014
WORK	Flight Software Intern – Falcon Team <i>Space Exploration Technologies, Hawthorne, CA</i> [spacex.com] <ul style="list-style-type: none">Designed and shipped a new test architecture for navigation software components, focusing on ease of use.Enabled more modular configuration of vehicle events, saving hours of engineering verification.Developed a custom static analysis toolchain to aid in assurance of the safety of flight computer memory usage. LabVIEW Student Ambassador for UIUC <i>National Instruments, from Urbana IL</i> [ni.com/academic/ambassadors] <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. RF R&D Software Engineer – Internship <i>National Instruments, Austin TX</i> [ni.com] <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). Software Developer for LTE Testing Tools – Co-Op <i>Alcatel-Lucent, Naperville IL</i> [alcatel-lucent.com] <ul style="list-style-type: none">Designed & developed a new, comprehensive testing suite tool to automate LTE Network Tests & create Network Health Reports.	May 2014 – August 2014, May 2015 – August 2015 August 2013 – May 2014 May 2013 – August 2013 May 2012 – May 2013
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	WizardStaff [kashev.github.io/wizardstaff] <ul style="list-style-type: none">Worked on a 4 person team to create an IOT party game for HackIllinois, which had sensor-enabled, LED-equipped, WiFi connected glassware interacting with an Android app, & web and Pebble watch-app scoreboards.Won best use of Spark Core Microcontroller, & featured on popular blog Hack A Day. Pipelined LC3-BX Processor Model <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] <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 Hack A Day, Firebase & OctoPart company blogs, & got 13K views on our demo on YouTube. Muxxy – A HiFi Audio Switch <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 <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>. Websites, a PGA2310 Arduino Library, Tetris Attack, EOH Projects, dotfiles, and more... [github.com/kashev]	Spring 2015 Spring 2014 Spring 2014 Fall 2013 Spring 2013
OTHER	HKN Director of Initiate Affairs <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]	Fall 2012 – Spring 2014 June 2010
