

Bassel Alesh

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EDUCATION	Bachelor of Science in Electrical Engineering University of Illinois at Urbana-Champaign	GPA: 3.86/4.00 August 2014 - December 2017
	Relevant Coursework Wireless Communication Systems Analog IC Design Microwave Circuits and Devices Automated Microwave Measurements Digital Systems Lab Fields and Waves (I & II) Electronic Circuits (+ Lab) Digital Signal Processing Data Structures Active Microwave Circuit Design	
SKILLS	<i>Languages:</i> Python, C, C++, SystemVerilog, Bash, MATLAB. <i>Software:</i> ADS, Cadence Virtuoso, EAGLE, HFSS, PSPICE. <i>Lab:</i> VNAs, Spectrum Analyzers, Signal Generators, Oscilloscopes, Multimeters.	
EXPERIENCE	RF Systems, Algorithms, and Calibration Intern <i>Apple Inc.</i>	January 2018 - August 2018 Cupertino, CA
	<ul style="list-style-type: none">Developing hardware and software for NFC automation tools and systems.	
	Digital Hardware Engineering Intern <i>Qualcomm Inc.</i>	May 2017 - August 2017 San Diego, CA
	<ul style="list-style-type: none">Worked on the layout of a transceiver's PLL module for the RFIC Digital Design team.Extracted the RLCK parasitics of the digital modules' nets using RaptorX.Created a testbench using Cadence Virtuoso that simulated signal delays along the extracted model and reported the results in the design review.	
	Undergraduate Research Assistant <i>University of Illinois at Urbana-Champaign</i>	September 2016 - December 2017 Champaign, IL
	<ul style="list-style-type: none">Developing a stochastic electromagnetics solver in Python by leveraging Maxwell's equations and plane wave fundamentals.	
	Undergraduate Grader for Fields & Waves I <i>University of Illinois at Urbana-Champaign</i>	September 2016 - May 2017 Champaign, IL
EXTRA-CURRICULAR ACTIVITIES	<ul style="list-style-type: none">Homework grader and review session organizer for ECE 329. Topics include Maxwell's equations, transmission line theory, and Smith Chart applications.	
	Product Development Intern <i>AT&T Inc.</i>	May 2016 - August 2016 Atlanta, GA
	<ul style="list-style-type: none">Worked with an LTE modem board purposed for AT&T's IoT platform.Tested the board's UART, GPIO pins and more using AT Commands.Designed a testing shield that for an LTE modem board using EAGLE.	
	Electromagnetics Playground, <i>Lab Instructor</i>	August 2017 - December 2017
	ECE Student Advancement Committee, <i>Representative</i>	August 2016 - December 2017
	PULSE, <i>Media & Design Director</i>	May 2015 - May 2017
	Eta Kappa Nu, <i>ECE 329 Review Session Instructor</i>	February 2017 - May 2017
HONORS & AWARDS	Illini Formula Electric, <i>Low-Voltage Team Member</i>	August 2015 - May 2016
	ECE 483 (Analog IC Design) Low Dropout Regulator Design - 2 nd Place	2017
	Floyd E. Lundgren Scholarship	2017
	Ellery B. Paine Outstanding Junior Award	2017
	ECE Visionary Award	2017
	James Scholar, Dean's List	2015-2017