

Bassel Alesh

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EDUCATION	Bachelor of Science in Electrical Engineering	GPA: 3.84/4.00
	University of Illinois at Urbana-Champaign	August 2014 - December 2017
	Relevant Coursework [F17 = Fall 2017 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 [F17]	Active Microwave Circuit Design [F17]
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	Wireless OTA/RF Desense & Cal Intern	January 2018 - August 2018 Cupertino, CA
	Digital Hardware Engineering Intern	May 2017 - August 2017 San Diego, CA
	<i>Qualcomm Inc.</i>	
	<ul style="list-style-type: none">Working on the PLL of a transceiver chip 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.Wrote a Bash script that maintains version control for different tools' runs.	
	Undergraduate Research Assistant	September 2016 - Present Champaign, IL
	<i>University of Illinois at Urbana-Champaign</i>	
	<ul style="list-style-type: none">Created models for transmission lines and their designated coupling behavior using Python for quicker simulations of large-scale systems.	
	Undergraduate Grader for Fields & Waves I	September 2016 - May 2017 Champaign, IL
	<i>University of Illinois at Urbana-Champaign</i>	
	<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	May 2016 - August 2016 Atlanta, GA
	<i>AT&T Inc.</i>	
	<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.	
EXTRA-CURRICULAR ACTIVITIES	Electromagnetics Playground, <i>Lab Assistant</i>	August 2017 - Present
	ECE Student Advancement Committee, <i>Junior Rep</i>	September 2016 - Present
	PULSE, <i>Media & Design Director</i>	May 2015 - May 2017
	Eta Kappa Nu, <i>ECE 329 Review Session Instructor</i>	February 2017 - May 2017
	Illini Formula Electric, <i>Low-Voltage Team Member</i>	September 2015 - May 2016
HONORS & AWARDS	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