

Bassel Alesh

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EDUCATION	University of Illinois at Urbana-Champaign		
	B.S. in Electrical Engineering, expected graduation of December 2017		
	GPA: 3.84/4.00		
	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)	Computer Systems & Programming	
	Digital Signal Processing	Semiconductor Electronics [F17]	
	Active Microwave Circuit Design [F17]	Data Structures [F17]	
SKILLS	Languages: Python, SystemVerilog, C, MATLAB.		
	Software: ADS, Cadence Virtuoso, EAGLE, HFSS, PSPICE.		
	Lab: VNAs, Signal Generators, Oscilloscopes, Multimeters, Soldering.		
EXPERIENCE	Digital Hardware Engineering Intern	May 2017 - August 2017	
	Qualcomm Inc.	San Diego, CA	
	<ul style="list-style-type: none">Working on the PLL of a wireless transceiver for the RFIC Digital Design team.		
	<ul style="list-style-type: none">Extracted the RLCK parasitics of the digital modules' nets using RaptorX.		
	<ul style="list-style-type: none">Created a testbench using Cadence Virtuoso that simulated typical and worst-case signal delays along the extracted model and reported the results in the design review.		
	<ul style="list-style-type: none">Writing Bash scripts that maintain version control for different tools' runs.		
	Undergraduate Research Assistant	September 2016 - Present	
	University of Illinois at Urbana-Champaign	Champaign, IL	
	<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 - Present	
	University of Illinois at Urbana-Champaign	Champaign, IL	
	<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		
AT&T Inc.	Atlanta, GA		
<ul style="list-style-type: none">Worked with an LTE modem board purposed for IoT applications and recorded any bugs, along with tests that found them, in preparation AT&T's Shape Expo.			
<ul style="list-style-type: none">Tested the board's UART, GPIO pins and more using AT Commands.			
<ul style="list-style-type: none">Designed a testing shield that for an LTE modem board using EAGLE.			
EXTRA-CURRICULAR ACTIVITIES	ECE Student Advancement Committee, Junior Rep	September 2016 - Present	
	PULSE, Media & Design Director	May 2015 - May 2017	
	Illini Formula Electric, Low-Voltage Team Member	September 2016 - May 2016	
HONORS & AWARDS	ECE 483 (Analog IC Design) Low Dropout Regulator Design - 2 nd Place		2017
	Ellery B. Paine Outstanding Junior Award		2017
	ECE Visionary Award		2017
	James Scholar		2015-2017
	Dean's List		2015-2017