

Eric Tang

erictang25.github.io

5 Sean Circle
Billerica, MA 01821
Cell: (978) 437-7708

600 S. Negley Ave., Apt. A5
Pittsburgh, PA 15232
Email: erictang@andrew.cmu.edu

Education	Carnegie Mellon University Ph.D. Electrical and Computer Engineering	Pittsburgh, PA Expected Dec 2025
	Cornell University Bachelor of Science, Electrical and Computer Engineering, Computer Science minor Dean's List (all semesters), Magna Cum Laude	Ithaca, NY May 2020
	<i>Relevant Courses</i> Complex Digital ASIC Design • Distributed Computing • Computer Architecture • Large Scale Machine Learning • Digital Communication	
Awards and Honors	Dean's Fellow, Carnegie Institute of Technology	Feb. 2020
	Eta Kappa Nu (IEEE-HKN)	Nov. 2018
	Tau Beta Pi	Nov. 2018
Skills	Programming Languages: Verilog, C, C++, Matlab, Python, Java, PyMTL3 Tools: Git, Altium, Verilator, VCS, Primetime PX	
Research Experience	Cornell University, Batten Research Group Advisor: Prof. Christopher Batten	Aug. 2018 – May 2020
	<ul style="list-style-type: none">Created 3 stage pipelined blocking cache generator parametrized by size of cache lines and total size.Designed a custom energy and power characterization flow that utilizes Synopsys EDA tools (Primetime PX) to find performance metrics for custom ASIC designs.Ran preliminary tests and created breakout board for computer architecture test chip (BRGTC1)	
	Cornell University, Computer Systems Laboratory Advisor: Zhiru Zhang	Jun. 2017 – Aug. 2017
Professional Experience	<ul style="list-style-type: none">Experimented with various forms of gradient descent on a GPU to filter spam emails more quickly.Implemented stochastic gradient descent using multiple threads with asynchronous updates in C	
	MITRE, Bedford MA <i>Position Navigation and Timing Intern</i>	May 2019 – Aug. 2019
	<ul style="list-style-type: none">Identified spoofing in GPS signals from data collected during field tests.Created plots and maps to visualize various aspects of GPS signals	

	Draper Laboratory, Cambridge MA <i>Undergraduate Engineering Intern</i>	May 2018 – Aug. 2018
	<ul style="list-style-type: none"> Designed new test procedures and soldered custom test circuits to verify proper sensor functionality. Automated tests utilizing oscilloscope, function generator, power sources and ammeters 	
Teaching	Cornell University, College of Engineering Computer Architecture, ECE 4750 <i>Teaching Assistant</i> Graded labs, problem sets and quizzes and held weekly office hours	Aug. 2019 – Dec. 2019
	Digital Logic and Computer Organization, ECE 2300 Led exam review session for over 20 students	Apr. 2019
	Multivariable Calculus, MATH 1920 <i>Academic Excellence Workshop Facilitator</i> Taught and created problem sets for a class of 15 students	Aug. 2017 – Dec. 2017
Activities	Resistance Racing, Cornell University <i>Electrical Subteam Lead</i>	Sep. 2017 – May 2020
	<ul style="list-style-type: none"> Designed and optimized an energy efficient BLDC motor controller using field-oriented control. Designed, populated, and tested a PCB for measuring power consumption (joulemeter). Tested and integrated battery management system, power converters, data acquisition, motor controller and automation systems onto the vehicle 	
	Club Swimming, Cornell University	Sep. 2016 – May 2017