

Yuyi Shen

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Education	Carnegie Mellon University Pittsburgh, PA Expected Graduation: May 2020 Bachelor of Science in Electrical and Computer Engineering Cumulative QPA: 3.93/4.00		
Relevant Coursework	Electronic Devices and Analog Circuits Fundamentals of Semiconductor Devices Microelectronic Circuits Introduction to Embedded Systems		
Skills	Languages: Python R C SystemVerilog	Software: Git LaTeX LtSpice Kicad Advanced Design System Matlab	Hardware: Vector network analyzers Spectrum analyzers RF probe stations PCB layout and simulation
Work Experience	Carnegie Mellon University PMaNS Lab Pittsburgh, PA ECE Summer Intern Summer 2019 <ul style="list-style-type: none">• Designing a phase modulator based off of a lateral overtone bulk acoustic resonator (LOBAR)• Investigating the applications of a LOBAR-based phase modulator for electronic frequency comb generation S&C Electric Company Alameda, CA Summer Intern Summer 2018 <ul style="list-style-type: none">• Developed and fitted current transformer models to overcurrent control CT• Applied CT modeling to secondary injection testing with overcurrent protection relay Carnegie Mellon University PMaNS Lab Pittsburgh, PA Undergraduate Research Assistant Fall 2017-Present <ul style="list-style-type: none">• Assisted with layout, fabrication, and troubleshooting of 70 H-bridge PCB for driving electro-permanent magnets• Collaborated with master's student to program H-bridge PCB for communications with onboard SMPS over SPI and computer control over USB• Designed and prototyped buffered VHF oscillator circuit for demonstrating low ESR MEMS resonators• Characterized MEMS devices (resonators and delay lines) with RF probe stations		
Activities	Robotics Club , Carnegie Mellon University 2016-Present <ul style="list-style-type: none">• Used Robotics Club equipment to prototype personal projects, including 2 voltage rail splitters, a boost converter, and a transimpedance amplifier for a field mill Chem-E Car , Carnegie Mellon University 2016-Spring 2018 <ul style="list-style-type: none">• Helped develop thermoelectric power supply for small robotic car• Constructed and documented Arduino modules for control of small robotic car		
Honors	Dean's List, College of Engineering: Fall 2016-Spring 2019		