

## Peter Miller

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Objective	To obtain a co-op position in order to apply knowledge to real world applications as well as to gain further knowledge and experience in electrical engineering. Available January 2017 - August 2017	
Work Experience	<b>Teledyne Scientific Co. - Durham, NC</b> July 2016 - August 2016 Software Intern - Worked to develop and improve MATLAB scripts for the automation of bulk image processing as part of a team working on a DARPA project.	
Education	Rochester Institute of Technology Bachelor of Science Degree in Electrical Engineering with Computer Engineering Option (Expected 2019)	
Courses	Freshman Practicum Digital Systems I Circuits I Computational Problem Solving Digital Systems II	Circuits II Advanced Programming EM Fields & Transmission Lines Electronics I Embedded Systems Design
Skills	<b>Software:</b> Java, C/C++, Assembly, HTML, CSS, MATLAB, Linux, Windows, Microsoft Office, Quartus II, VHDL, Verilog, Digilent Waveforms, Eclipse, OrCAD, PSpice <b>Hardware:</b> Digital Multimeter, Oscilloscope, Waveform Generator, DC Power Supply, Altera FPGA, TI MSP430 & MSP432, Raspberry Pi	
Projects	<b>0range.xyz</b> - 0range.xyz (that is with a zero) is my first venture into learning how to code in html and css. Between following a tutorial and experimenting, I was able to develop a website to express myself both professionally and in my personal life. <b>Musical Generator</b> - I chose for my final project in Advanced Programming something quite ambitious; That is to write a C++ program that composes decent sounding music and saves it to a MIDI file. Challenges included working with the format of a MIDI file and creating a nice sounding generation algorithm. <b>@TheOrangeBot</b> - @TheOrangeBot was a program I developed in Java using the Twitter4J libraries to access Twitter APIs. @TheOrangeBot was able to read and respond to tweets using custom programming as well as APIs such as Forcast.io (Now Dark Sky) and Wolfram Alpha. <b>IBM PCXT Restoration</b> - I have been working on restoring my grandfather's IBM PCXT. So far I have replaced the RAM and a few capacitors. Although replacing these capacitors gave some improvement, other capacitors are likely causing the board not to boot. <b>Atari 2600 HDMI Modification</b> - By studying the schematics for the Atari 2600, I was able to extract the composite video and audio signals from the board and send them to an analog to digital converter and HDMI encoder. As the video and audio signals are not isolated, permanent modification would be required for a cleaner image.	
Activities	Cum Laude Society Boy Scouts Order of the Arrow Eagle Scout RIT Linux Users Group National Society of Leadership & Success	2014-Present 2006-2014 2009-Present 2014 2014-Present 2016-Present
Interests	Running, Bicycling, Nordic & Alpine Skiing, Camping, Hiking, Programming, Automotive work, Viola, Digital & Film Photography	

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