

**EDUCATION**

<b>New York, NY</b>	<b>New York University</b>	<b>Sep 2014 – Dec 2016</b>
M.S. in <i>Electrical Engineering</i>		
<ul style="list-style-type: none"> <li>• <u>Areas of Specialization</u>: Signal Processing, Machine Learning, Bioinstrumentation</li> <li>• <u>Graduate Coursework</u>: Data Structures and Algorithms, Probability and Stochastic Processes, Matrix theory</li> <li>• <u>Relevant Projects</u>: Keyboard Visualizer, EKG Bioinstrumentation Amplifier, Cell Fluid Volume Modeling</li> </ul>		
<b>New Brunswick, NJ</b>	<b>Rutgers University</b>	<b>Sep 2010 – May 2014</b>
B.S. in <i>Biomedical Engineering</i> , Minors: Mathematics/Psychology		
<ul style="list-style-type: none"> <li>• <u>Undergraduate Coursework</u>: Probability theory, Linear Algebra, Tissue Engineering, Drug Delivery , Kinetics and Thermodynamics, Transport Phenomena</li> </ul>		

**PROFESSIONAL AND RESEARCH EXPERIENCE**

<b>Researcher/Collaborator</b>	<b>Stanford University</b>	<b>Jan 2016 – Current</b>
Stanford Crowd Research Collective		
<ul style="list-style-type: none"> <li>• Working with Michael Bernstein to apply analytics and machine learning to Daemo, a self-governed crowdsourcing marketplace</li> </ul>		
<b>Teaching Assistant</b>	<b>New York University</b>	<b>Sep 2015 – Dec 2015</b>
<ul style="list-style-type: none"> <li>• Course: EL 6303 Probability and Stochastic Processes</li> </ul>		
<b>SoSC STEM Teaching Fellow</b>	<b>New York University</b>	<b>Jun 2015 – Nov 2015</b>
<ul style="list-style-type: none"> <li>• Contributed in the development and implementation of a STEM program involving electrical engineering, programming and wireless communication that impacted over 1000 students in the NYC area</li> <li>• Taught programming concepts using Arduino Unos and integrated technologies such as RFID and WIFI shields, parallax robot kits and IR/FT transmitters/receivers</li> </ul>		
<b>Senior Design Project</b>	<b>Rutgers University</b>	<b>Sep 2013 – May 2014</b>
<ul style="list-style-type: none"> <li>• Collaborated with Dr. John K-J Li to develop a non-invasive monitor for hypertension</li> <li>• Created a MATLAB program to automatically calculate pulse transit time (PTT) from the ECG waveform by using a peak-detection algorithm</li> </ul>		
<b>Research Assistant</b>	<b>Rutgers University</b>	<b>Jan 2012 – Dec 2012</b>
<ul style="list-style-type: none"> <li>• Created a GUI with MATLAB that modeled the dynamics of alcohol absorption in the body</li> <li>• Utilized ImageJ to record the number of live/dead/transfected cells using filters and edge detection</li> </ul>		

**PROJECTS**

<b>Fun-thesizer (JavaScript, HTML5/CSS3)</b>		
<ul style="list-style-type: none"> <li>• Keyboard visualizer using the Web Audio API that can play/draw sounds with varying audio filters applied</li> </ul>		
<b>Audio Effect Implementations (Python)</b>		
<ul style="list-style-type: none"> <li>• Implemented various effects (AM modulation, reverb, distortion) in python using the PyAudio library</li> </ul>		
<b>EKG Bioinstrumentation Amplifier (MATLAB, LabVIEW)</b>		
<ul style="list-style-type: none"> <li>• Constructed an EKG using OP amps, DAQ hardware (USB-6009) and filtering done in MATLAB</li> </ul>		
<b>Non-invasive Hypertension Monitor (MATLAB, Arduino)</b>		
<ul style="list-style-type: none"> <li>• Utilizes a pressure transducer in order to detect the pulse pressure in the radial and carotid arteries in order to determine arterial compliance</li> </ul>		

**LANGUAGES AND TECHNOLOGIES**

<b>Programming Languages:</b>	Python, SQL, Ruby, MATLAB, JavaScript
<b>Web Technologies:</b>	HTML5/CSS3, jQuery, Bootstrap
<b>Software/Other:</b>	Git/Github, Bash, Linux (Ubuntu), Sublime Text, Sqlite, Jupyter, Microsoft Office