

<b>EDUCATION</b>	<b>Carnegie Mellon University</b> , Pittsburgh, PA <b>Bachelor of Science in Physics, Applied Physics Track</b>			<b>May 2016</b>
<b>RELEVANT COURSES</b>	Intermediate Optics Lab Electronics Lab Mechanical Engineering Lab	Introduction to Materials Science Lab Experimental Physics Lab Solid State Physics		Fundamentals of Programming Modern Physics Lab
<b>RESEARCH EXPERIENCE</b>	<b>Senior Research</b> <b>Physics Department, Carnegie Mellon University</b>			<b>January 2016 – Present</b>
	<ul style="list-style-type: none"> <li>Designed an electron tunneling experiment for use in Modern Physics Lab</li> <li>Trained in ultra-high vacuum and vacuum deposition techniques</li> <li>Trained in the operation and maintenance of mechanical, ion, and cryo vacuum pumps</li> </ul>			
<b>SKILLS</b>	Python Interferometry	C++ End Mill/Late machining		FORTRAN SolidWorks 3D modeling
<b>WORK EXPERIENCE</b>	<b>Instrumentation &amp; Programming Intern</b> <b>Brookhaven National Laboratory (BNL), Long Island, NY</b>			<b>Summer 2014</b>
	<ul style="list-style-type: none"> <li>Improved the electrical optical measurements of the Large Synoptic Survey Telescope to be located in Chile</li> <li>Studied the characterization and manipulation of next-generation testing for fully depleted Charge Coupled Device (CCD) image sensors under Dr. Ivan Kotov of the Instrumentation Division</li> <li>Performed a pocket pumping analysis on CCDs using ds9 software and C++ to locate and identify the cause of electron traps leading to imperfections in images -- with a focus on temperature and timing dependence</li> </ul>			
	<b>Desk Attendant, Cohon University Center Equipment Desk</b> <b>Athletics Department, Carnegie Mellon University</b>			<b>May 2013 – May 2015</b>
	<ul style="list-style-type: none"> <li>Interacted with gym patrons and handled inquiries about the facilities, campus, and surrounding area</li> <li>Maintained an inventory of athletic equipment and tracked gym usage</li> </ul>			
	<b>Systems Developer, Snackbot (Human-Computer Interaction Research Project)</b> <b>Robotics Institute, Carnegie Mellon University</b>			<b>September 2012 – May 2013</b>
	<ul style="list-style-type: none"> <li>Maintained and upgraded SnackBot's capability to interact with customers</li> <li>Upgraded the Client Interface and Client Interface Server which simplified the process of transmitting data over sockets</li> <li>Improved the functionality of the Dialog Tree Creator which allows users to create unique dialogue trees for SnackBot with no knowledge of programming or the underlying technology</li> </ul>			
<b>ACTIVITIES</b>	<b>Booth Chair &amp; Social Chair</b> <b>Carnegie Involvement Association Buggy &amp; Carnival</b>			<b>September 2013 – April 2015</b>
	<ul style="list-style-type: none"> <li>Coordinate the planning of infrastructure and construction of a two-story wooden walk through structure that meets international building code, including working electricity and external waterproofing</li> <li>Assisted with the design and construction of 3 award winning buggies (soapbox derby)</li> <li>Led the restoration of an older buggy and documented procedures for the purpose of educating new members</li> </ul>			
	<b>Eagle Scout</b> <b>Boy Scouts of America</b>			<b>May 2012</b>
	<ul style="list-style-type: none"> <li>Senior Patrol Leader in charge of leading 40 scouts during weekly scouting activities and camping trips</li> </ul>			