

## Michael Anthony Boodoo

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[github.com/BluedragonXVI](https://github.com/BluedragonXVI)  
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<b>Education</b>	M.S. Computer Science, Hofstra University, Hempstead NY	In Progress
	Graduate Studies, New York Institute of Technology, NY	2017
	B.S. Biology, Adelphi University, Garden City NY	2014
	<b>Tutor</b> Nassau/Suffolk Community College	12/2019 - Present
	<ul style="list-style-type: none"><li>• Discrete Math tutor for NCC student, statistics tutor for SCC student</li><li>• Weekly lesson review and and completion of problem sets</li></ul>	
	<b>Teaching Assistant</b> , Adelphi University, Garden City, NY	2013-14
	<ul style="list-style-type: none"><li>• Assisted in solution prep, quiz/exam grading, and tutoring</li><li>• Authored an atomic force microscope manual for instrumental analysis</li></ul>	
	<b>Research Assistant</b> , Adelphi University, Garden City, NY	2010-14
	<ul style="list-style-type: none"><li>• Prepared and logged experimental data using lab instruments and software</li><li>• Fabricated and imaged nano-particle solar cells using atomic force microscopy</li></ul>	
	<b>Research Intern</b> , Brookhaven National Laboratory, Upton, NY	Summer 2010-11
<b>Projects</b>	<ul style="list-style-type: none"><li>• Researched quantum dot based solar cells; funding from DOE</li><li>• Fabricated nano-particle cadmium based solar cells</li><li>• Conducted SEM/UV-VIS and probe station characterization</li></ul>	
	<b>Master's Project</b> Smart Drone Swarm	In Progress
	<ul style="list-style-type: none"><li>• 3 drone system to use Jetson nano computer linked to a flight controller</li><li>• Researching distributed algorithms for 3D-reconstruction</li><li>• Researching real time obstacle avoidance capability and networking via MQTT</li></ul>	
	<b>Senior Project</b> MDS Analysis of Voltage-Gated Ion Channels Using R	
	<ul style="list-style-type: none"><li>• Visualized sodium channel sequence data using the <i>bios2mds</i> package</li><li>• Data was collected and processed as arrays of multiple sequence alignments</li><li>• MDS was computed by transforming the distance matrix into a cross-product one</li><li>• Groupings were performed using K-means via using the <i>cluster</i> package</li></ul>	
<b>Skills</b>	<b>Languages:</b>	Python, C++, R, HTML/CSS, Javascript
	<b>Software/Frameworks:</b>	ROS, OpenCV, Git, Scipy stack,