Education:	Rochester Institute of Technology M.S. Electrical Engineering 2009 GPA: 3.5/4.0 Availability: September 2009		Rochester Institute of Technology B.S. Electrical Engineering 2007	Morehouse College B.S. Applied Physics 2007	
Skills:	Auto-CAD; Ansoft Designer; C/C++; Orcad Capture CIS; LabView; Matlab; Webots				
Projects:	Thesis Research:				
	Design Project:	robust control for 5 degrees of freedom robotic arm. Designed and constructed a two way communication device that will allow deaf or hard of hearing students in engineering or science to more efficiently communicate with tutors or professors in an individual or group environment.			
	MEMS Evaluation: Advanced Control:	Verified and evaluated operating characteristics of Freescale Pressure Sensor. Designed lead and/or lag compensator system for linear systems and sliding mode controller, adaptive controller, and optimal continuous time PID controller for non-linear systems. Designed and modeled robust controller for magnetic ball levitation system while modeling and implementing an electromagnet as outside disturbance in Matlab and Simulink software. Pattern Recognition of multiple ship images classified through feed forward back propagation net using Neural Networks Toolbox in Matlab. Ansoft Designer and Matlab used to study radiation patterns of linear dipoles, aperture antennas, arrays, electromagnetic horn antennas, microstrip antennas, and reflector antennas.			
	Robust Control:				
	Neural Networks:				
	Antenna Theory:				
	Microwave Circuit:	Ansoft Designer, N	Insoft Designer, Matlab, and microwave network analysis used to study the fundamentals f wave guides, coax, microstrip and stripline, and microwave resonators.		
	Radar Engineering:		ually study factors affecting radar range, nd target identification techniques.	signal detection in noise,	
Experience:	 Biomechatronic Learning Laboratory- Rochester Institute of Technology Research Assistant June 2008 - Present Developing software platform for 5 degrees of freedom Katana harmonic arm in MATLAB. Deriving kinematic model for harmonic arm using Denavit-Hartennberg parameters. Using Webots simulation software to create 3D environments that incorporates physics modeling. NAVSEA Warfare Center Carderock - Electromagnetic Signatures Code - Bethesda, MD Intern June 2006 - August 2006 Fabricated photonic crystals by using CNC G-code and a milling machine to construct various aperture arrays. Performed raster scans of photonic crystals to measure near fields in different transverse modes. Developed a GUI in MATLAB that more efficiently acquires and processes data from a vector network analyzer. 				
	Research Assi Characterization existing toner c	ewlett Packard - funded project- Rochester Institute of Technology esearch Assistant February 2005 - November 2005 naracterization of toner consumption in Hewlett Packard LaserJet 3700 printers. Leveraging sisting toner consumption model using MATLAB software. Developed metrics that maximized ner particle consumption in the area of electrophotography.			
Honors:	Amorese Graduate Scholarship; Young Achiever Award; NACME Scholarship; Coro Center for Civic Leadership Problem Solving Fellow				
Activities:	National Society of Black Engineers (NSBE) - RIT Chapter, RIT Community Advocate Graduate Assistantship, Presidents Board for Promoting Pluralism and Inclusion - Student Representative, Stay Tech at RIT project sponsored by the Semiconductor Industry Association - Star Mentor, Graduate Teaching Assistant				