

Risha Mars

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Education	Massachusetts Institute of Technology	June 2011	Cambridge, MA
	Candidate for Bachelor of Science Degree, Electrical Engineering, GPA 4.7/5.0		
	<ul style="list-style-type: none"> Related coursework: Introduction to Electrical Engineering and Computer Science I&II, Probability and Statistics, Differential Equations, Circuits, Signals and Systems, Computation Structures 		
	University of Cambridge	2009-2010	Cambridge, UK
	3rd year exchange program		
	<ul style="list-style-type: none"> Coursework: RF Electronics, Switch-mode Electronics, Semiconductor Engineering, Signals and Systems, Computer Systems, Photonic Technology, Systems & Control, Signal and Pattern Recognition, Data Transmission, Software Engineering and Design 		
Experience	06-2010 to 08-2010	Universidad Politécnica de Madrid	Madrid, Spain
	Unmanned Aerial Vehicle (UAV) Intern		
	<ul style="list-style-type: none"> Set up and documented hardware and software to integrate newly purchased vehicle into research group Gathered test data from flights to improve flight quality and investigate vehicle capabilities Operated ground station during flights Configured autopilot parameters to enable stable flight Added functionality to existing remote control program allowing the vehicle to be controlled by a laptop as an alternate pilot 		
	06-2009 to 08-2009	Ingersoll Rand Security Technologies	Bangalore, India
	Wireless Electronic Lock Engineer		
	<ul style="list-style-type: none"> Added remote control capabilities to existing electronic lock using Zigbee technology Planned all stages of project, assisted in design and review of hardware Produced design documents, flow charts and block diagrams following the New Product Development Cycle Soldered and tested PCB, built working prototype 		
	01-2009	Brown Innovations	Boston, MA
	Signal Processing Extern		
	<ul style="list-style-type: none"> Installed bootloader software on Analog Devices Blackfin processor circuit board using JTAG Learned concepts and procedures in Digital Signal Processing 		
	09-2008 to 05-2009	Massachusetts Institute of Technology	Cambridge, MA
	Physics Tutor		
	<ul style="list-style-type: none"> Help students with concepts of mechanics, provide one-on-one and group homework assistance Hold exam review sessions for groups of up to 12 students Grade homework and exams 		
	05-2008 to 08-2008	Ben Gurion University	Beer Sheva, Israel
	Hyperspectral Data Analyst		
	<ul style="list-style-type: none"> Interned in a mathematical research position using MATLAB Constructed and tested a model for quantifying error in satellite images Model assists in target detection in satellite images 		
Extra-Curricular Activities	2009	Treasurer -- MIT Muslim Students' Association	
	2008-2009	Transportation Manager, Meeting Coordinator -- Hibur, The MIT-Technion Link	
	2007-2009	MIT Women's Lightweight Crew (Varsity)	
	2000-2007	Piano and violin classes and recitals	
Academic Awards	2007	National Scholarship Winner (Trinidad and Tobago)	
	2007	Trinidad and Tobago Mathematics Olympiad (Level 2) - 7th place nationally	
International Experience	2008	Audited a course in Hyperspectral Data Analysis	Ben Gurion University, Israel
	2007 (June)	Global Young Leaders Conference	Washington DC & New York City
	2006 (Dec)	16th Commonwealth Conference of Education Ministers (Youth Forum)	South Africa
Skills	Computer:	MATLAB, knowledge of C++, Java, Python languages	
	Electronics:	Circuit building in lab using op-amps, LDRs, motors, PCB soldering	
	Languages:	Fluent in Spanish; currently studying intermediate Arabic; basic German, French and Hebrew	