

Objective:	Find a challenging full time engineering position		
Experience:	2008 – 2009	MCT Inc./NASA Ames Research Center	Moffett Field, CA
	Hardware/Controls Engineer: Hypersonic Vehicles		
	<ul style="list-style-type: none"> Modeling and simulation of 6DOF hypersonic vehicle by developing on, and enhancing a NASA Ames' advanced, real-time, high fidelity flight simulator capable of full pilot interaction with hardware in the loop and Simulink integration. Control system design, implementation, and evaluation for maximal impact on NASA hypersonic air-breathing Vision Vehicle design. Co-authored two research publications 		
	2003 – 2007	Microchip Technology Inc.	Chandler, AZ
	Applications Intern		
	<ul style="list-style-type: none"> Built, debugged, executed, and analyzed microcontroller test setup data resulting in significant design win Authored three published application articles demonstrating the use of Microchip products for embedded systems development Developed and taught short courses on embedded systems signal conditioning and embedded feedback systems at Microchip 05 & 07 Technology Conferences 		
	Summer 06 & 07	International Business Machines	Austin, TX
	Co-op		
	<ul style="list-style-type: none"> Power 7 VMX/Altivec Performance Verification Power 6 Server Firmware Bring-up 		
Education:	2001 – 2009	Arizona State University	Tempe, AZ
	<ul style="list-style-type: none"> Bachelor of Science Electrical Engineering, Dec 2005 Masters of Science Electrical Engineering (Control Systems), May 2009 3.5 GPA; <u>3.8 GPA in relevant courses (see below)</u> 		
Relevant Courses:	<ul style="list-style-type: none"> Signals and Systems Computer Controlled Systems Multivariable Control Systems Optimal Controls Feedback Systems Digital Signal Processing Linear & Nonlinear Systems Artificial Neural Networks 		
Skills:	<ul style="list-style-type: none"> 68K & PIC Assembly Language Windows, Mac OS, Linux, AIX Linux/Unix Scripting HTML/CSS web programming C programming Printed Circuit Board layout design Excel, MATLAB & Simulink/S-Function programming Salsa Dancing 		
Other Activities:	<ul style="list-style-type: none"> Developed & presented course on embedded control systems, Microchip 07' Technology Conference Developed a system for rapid prototyping of robust fault-tolerant embedded control systems using FPGAs & poster presentation; 3rd place Annual MGE@MSA/WAESO Student Research Conference 2007; Hispanics in Engineering National Conference 2006 Developed robotics research kit & poster presentation; ASU Fulton Undergraduate Research Initiative (FURI) 2005; MAES International Symposium & Career Fair 2005 Attended the Nomadic Engineering Design & Manufacturing ASU Summer Program touring three European countries including UK, France, and Spain. Summer 2005 Past President, Vice President, Web Master, and founding member of MAES ASU (Mexican American Engineers and Scientists) Past MAES Regional Vice President Region 1: California, Arizona. 2006 Co-Founder and Electrical Designer for High School F.I.R.S.T. (For Inspiration and Recognition of Science and Technology) Robotics Team 2000 - 2001 Annual volunteer referee for regional F.I.R.S.T. tournament 2002 - 2007 IEEE and SHPE (Society of Hispanic Professional Engineers) member NSF Computer Science, Engineering, Mathematics, and Science (CSEMS) Scholar GEM Fellowship recipient (National Consortium for Graduate Degrees for Minorities in Engineering and Science) 2006 - 2007 		