Brian Benson

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OBJECTIVE:	To obtain a full time position as a Mechanical Design Engineer.		
EDUCATION:	Worcester Polytechnic Institute, Worcester MAExpected May 2011Masters of Science in Mechanical Engineering, GPA: 3.6Thesis: Design and Realization of a Rapid Kinetic Energy Transmission Mechanism		
	Worcester Polytechnic Institute, Worcester MA Bachelor of Science in Mechanical Engineering, Concentration in Robotics Graduated with Distinction, GPA: 3.4	May 2009	
	Massachusetts Academy of Math and Science, Worcester MA	May 2006	
EXPERIENCE:	 Teachers Assistant; Worcester Polytechnic Institute; Worcester, MA. August 2009-Present Responsible for assisting students, proctoring labs, and grading coursework for Robotics Engineering classes including: Introduction to Robotics, Unified Robotics I & II, and Industrial Robotics. 		
	 Mechanical Engineering Intern; iRobot Corporation; Bedford, MA 2010 Tasked with characterizing performance and lifespan variables on the Small Unmanned Ground Vehicle (SUGV) drive tracks to aid in design improvements, with the goal of increasing track lifespan in a highly constrained solution space. Developed and implemented LabVIEW automated tests to study relevant design parameters. Utilized test results, Mathcad, Excel, and Pro/E to provide a viable set of solution strategies to be implemented and verified. 		
	 Mechanical Engineering Intern; iRobot Corporation; Bedford, MA 2009 Responsible for development and implementation of onsite RAM (reliability, availability, and maintainability) testing for the SUGV system. Played critical role in discovery, debugging, and solution verification of significant issues discovered in RAM testing. Worked with the engineering team to track, maintain, and allocate robots. 		
	 Mechanical Engineering Intern; iRobot Corporation; Bedford, MA Machined prototypes and performed reworks on complex assemblies. Assembled SUGV robotic systems and subsystems. Developed and implemented a chassis leak test experiment for baseline pu Provided technical field support for Army testing at White Sands Missile 	1	
	 Technical Author; Servo Magazine; North Hollywood, CA Published twelve articles on the subject of robotics. 	2006-Present	
	 Photographer and Owner; Benson Photography and Video; Winchendon, MA Established a photography and video business. See www.BensonPV.com 	A, 2004-Present	
	 Major Qualifying Project; Worcester Polytechnic Institute; Worcester, MA 2008-2009 Developed the first sand-swimming biomimetic self-contained scalable robotic snake to better understand locomotion through granular media. Received Provost's MQP Award (Best MQP) in Robotics Department Received Honorable Mention for project in Mechanical Engineering Department 		
	 Interactive Qualifying Project; Worcester Polytechnic Institute; Worcester, N Developed an instructional video on composting methods for residents of 		
ACTIVITIES:	 Robotic Combat Competitor Designed and manufactured 15 combat robots ranging from 1lb-220lbs. w Have attended 40 competitions and won over 30 awards. Internationally ratio 		
	 Eagle Scout - Boy Scouts of America Order of the Arrow: Brotherhood Member 	1998-Present	
	Alpha Phi OmegaCo-ed Community Service Based Fraternity	2006-Present	

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	WPI Student Government AssociationHonorary Senator	2008
	Habitat for HumanityVolunteered to help build homes for low-income families	2004-2009
	 WPI Savage Soccer Robotics Competition Mentor High School Robotics Competition based on the Vex platform 	2006-2008
SKILLS:	Passed NCEES Fundamentals of Engineering Exam	April 2009
	 Software SolidWorks, Pro/E, LabVIEW, Mathcad, MATLAB, Microsoft Office, Adobe Photoshop Fabrication WPI Qualified Lab User: Manual and CNC mill, manual lathe, drill press, sandblaster, MIG welder, sheet metal brake and shear, machine setup, hand tools. 	
TRAINING:	Junior Leader Training ConferenceWeek long training through the Boy Scouts of America	2003
	 National Order of the Arrow Conference International Conference focused on leadership development and training 	2002,2004,2006