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Education	MASSACHUSETTS INSTITUTE OF TECHNOLOGY	Cambridge, MA
	<ul style="list-style-type: none">• Candidate for Master of Science in Mechanical Engineering, <i>February 2011. Current GPA: 4.8/5.0</i>• Bachelor of Science in Mechanical Engineering, Minor in Management. <i>June 2009. GPA: 4.7/5.0</i><ul style="list-style-type: none">• Member of Pi Tau Sigma Mechanical Engineering Honor Society, Initiated December 2007• Member of Tau Beta Pi Engineering Honor Society, Initiated February 2009	
Experience	MIT LABORATORY FOR MANUFACTURING AND PRODUCTIVITY	Cambridge, MA
	RESEARCH ASSISTANT, <i>September 2009 - present</i> <ul style="list-style-type: none">• Developing an innovative, high-yield thermal bonding process for microfluidic applications• Conducted feasibility study for potential processes, including material & thermal analyses and prototyping• Currently working on detailed analysis of processing parameters and device design for a method that shows potential for improvement in yield and robustness over current bonding methods	
	BOEHRINGER INGELHEIM PHARMACEUTICALS, INC.	Ridgefield, CT
	SUMMER INTERN, HIGH THROUGHPUT SCREENING GROUP, <i>June – August 2006 – 2008</i> <ul style="list-style-type: none">• Engineered an innovative laboratory instrument prototype based on customer needs; interfaced mechanical design with necessary electronics and automation; established operational protocols and conducted training sessions• Designed a new tool for a laboratory process; tool resolved ergonomic issues, decreased process time by 85%, and saved department \$4500• Scaled down dimensions and design components for previously developed lab equipment; built second system• Conducted detailed testing and analysis to evaluate performance of a newly proposed microplate material; results were used to make commercial commitments• Successfully developed an interactive electronic service request tracking system based on user requirements• Designed chiller blocks for effective cooling of reagents	
	MIT MANUFACTURING AND PROCESS CONTROLS LABORATORY	Cambridge, MA
Academic Projects	UNDERGRADUATE RESEARCHER, <i>September – June 2006 – 2009</i> <ul style="list-style-type: none">• Developed LabView program, designed and built mechanical components, and researched lab equipment needed to better characterize temperature control valves; executed control valve characterization• Implemented new hardware and developed a non-linear controller to correct backlash in the main control valves	
	5 WITS PRODUCTIONS	Saugus, MA
	EXTERN, <i>January 2008 (one-month-long extern program)</i> <ul style="list-style-type: none">• Designed and prototyped interactive elements and special effects for a walk-through spy-themed adventure	
Skills	ARTICULATING TOOL FOR ENDOSCOPIC SCREW DELIVERY <i>September - December 2009</i> <ul style="list-style-type: none">• Engineered this novel tool as a part of a precision machine design class focusing on medical devices• Worked with team of engineers and partnering surgeon to develop device requirements• Completed engineering analysis and built prototype for functional testing• Technology is patent pending	
	PORTABLE ELECTROMECHANICAL BRAILLE LABEL MAKER <i>September – December 2008</i> <ul style="list-style-type: none">• Engineered an innovative electromechanical Braille label maker on a team of 15 students with a \$6,500 budget• Worked on idea development, design of precision mechanical components, final assembly, and troubleshooting• Chosen as task force leader during crunch time to ensure critical module functioned by final deadline• Technology is patent pending	
Leadership	Introduced to and basic experience with the following: Lathe and Milling Machine, Waterjet, Thermoforming, Injection Molding, SolidWorks, Electronic Circuits, FEA, LabView, MATLAB, Java programming	
	<ul style="list-style-type: none">• MIT Society of Women Engineers (SWE)<ul style="list-style-type: none">◦ Outreach Co-Coordinator, <i>January 2006 – December 2007</i>• MIT Edgerton Center, MIT Public Service Center<ul style="list-style-type: none">◦ Outreach Assistant, Mentor and Activity Leader, <i>September 2005 – September 2007</i>	