

Maria Prus

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Education	Massachusetts Institute of Technology	Cambridge, MA
	Candidate for S.B. degree in Mechanical Engineering with Applied International Studies minor Relevant Courses: Product Engineering Process, Elements of Mechanical Design, Management in Engineering, Measurement and Instrumentation, Thermal-Fluids Engineering II, Design and Manufacturing II, Dynamics and Control II, Mechanics and Materials II	June 2010
Experience	MIT Braille Label Maker	Cambridge, MA
	Mechanical Engineering Design Team	March 2009-Present
	<ul style="list-style-type: none">• Assist in redesign of cutting mechanism, production of second prototype of student designed labeler• Awarded first place in both the prestigious MIT IDEAS and deFlorez design competitions	
	ALSTOM Transportation	Valenciennes, France
	Research and Development Engineering Intern	June 2009-August 2009
	<ul style="list-style-type: none">• Conducted feasibility studies for welding and final assembly robots for many train vehicle production lines• Proposed solutions based on cost, operations, scheduling, workstation layout, and ergonomics analysis	
	Washington Metropolitan Area Transit Authority	Washington, DC
	Controls Group Engineering Extern	January 2009
	<ul style="list-style-type: none">• Assisted Controls Group with development and implementation of new metro train washing system• Analyzed data and created report from testing to ensure all design parameters were met with new design	
	General Electric Company	Grove City, PA
Leadership/ Activities	Transportation Intern	May-August 2008
	<ul style="list-style-type: none">• Proposed redesign for oil/water pump alignment ring on new prototype engine• Set up new system to assign owners to issues with new engine design prints, manufacturing errors	
	MIT Media Lab Personal Robots Group	Cambridge, MA
	Huggable Project Mechanical Engineering Design UROP	June-August 2007
	<ul style="list-style-type: none">• Designed computer solid models for robotic movement mechanisms• Laid out, cut, and assembled metal and plastic parts for in-lab custom designs	
	MIT Glass Lab – Student/Instructor (October 2006 - Present)	Cambridge, MA
	<ul style="list-style-type: none">• Create blown glass art and sculpture as student in the MIT Glass Lab• Instruct students during weekly section of Beginner’s class	
	MIT Women’s Varsity Ice Hockey – Goaltender (October 2006 - October 2008)	Cambridge, MA
	<ul style="list-style-type: none">• Competed at DIII level in the ECAC East Conference.	
	Burton Conner Government – Floor Representative (November 2007 - November 2008)	Cambridge, MA
Skills	<ul style="list-style-type: none">• Approved and reviewed dorm budget, coordinated floor events, assisted in re-writing dorm constitution	
	MIT Associate Advisor Program – Freshmen Advisor (August 2007 - May 2008)	Cambridge, MA
	<ul style="list-style-type: none">• Helped freshmen select classes, assisted with academic or personal difficulties as they adjusted to MIT life	
	MIT Arts Scholar – Participant (September 2008 - Present)	Cambridge, MA
	<ul style="list-style-type: none">• Attend local art events, collaborate on pieces with other Arts Scholars	
	Student Mural Competition – Competition Winner (May 2008 - May 2009)	Cambridge, MA
	<ul style="list-style-type: none">• Photograph enlarged to 7 by 10 feet, displayed for a year in Frank Gehry’s MIT Stata Center	
	<i>Machinery:</i> Waterjet, Laser Cutter, Lathe, Mill, Bandsaw, Drill Press	
	<i>Computer:</i> Solidworks, Cosmosworks, Matlab, Mathcad, Mastercam, OMAX, Microsoft Office, Excel	
	<i>Language:</i> Intermediate level French	