



# Ryan Wistort

MIT Media Lab  
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www.rybots.com

## [ EDUCATION ]

**Massachusetts Institute of Technology**, Cambridge MA Masters of Media Arts and Sciences (Personal Robots) Present -

**University of Washington**, Seattle WA  
Bachelors of Science in Electrical Engineering  
Graduation Date: August 2007

## [ SKILLS ]

**Computer Languages:** Java, Ruby, Python, C, HTML/CSS, Matlab

**Operating Systems:** MacOS X, Linux, UNIX, Windows

**EE:** PCB layout, Labview, Verilog, FPGA (Altera & Xilinx)

**Embedded systems:** PIC, dsPIC, x86, AVR, TI DSP

**Mechanical:** Avid machinist, proficient in SolidWorks and Mastercam.

## [ EXPERIENCE ]

**2008 MIT Media Lab** Graduate student and Research Assistant at the MIT Media lab under Cynthia Breazeal in the Personal Robots Group.

**2007 – 2008 Intel Research Seattle** Intern developing low level hardware and software systems for mobile manipulation robotics applications.

**2006 Insitu Group** intern developing software and hardware subsystem for controlling engine temperature of a semiautonomous UAV.

**2005 Founded company** RyBOTS as a developer of small walking robot kits for educational use. End to end development from napkin drawing to documented product.

**2004 JPL** (Jet Propulsion Laboratories) intern - robotics specialist for mission design team - focusing on Mars mission scenarios.

**2002-2004 Undergrad researcher** developing software and mechanical systems for robotic power cable inspection system.

**2002 Newton Research Labs** intern assembling and testing robot products based on machine vision.

**2000 FIRST robotics team** - Active high school member, (Awards judge of FIRST event. 2008)

## [ HONORS ]

**2009 IDC** New Technologies for Learning and Play - Nominated Presenter

**2004 International Student Paper Contest**, IEEE Transmission and Distribution, 2nd place

**2003 NASA** Space Grant Scholarship

**2003 Mary Gates** Research Scholarship

**2002 Intel ISEF** science and engineering fair – third place in international engineering division.

**1999 Robothon** - Best of Show Grand Prize winner.

## [ PUBLICATIONS ]

W. Stiehl, A. Chang, R. Wistort, C. Breazeal, "The Robotic Preschool of the Future: New Technologies for Learning and Play" in 8th International Conference on Design and Children (IDC2009) Como, Italy, 2009

R. Wistort, C. Breazeal, "TOFU: A Socially Expressive Robot Character for Child Interaction," in 8th International Conference on Design and Children (IDC2009) Como, Italy, 2009

Smith, J.R., E. Garcia, R. Wistort, G. Krishnamoorthy. "Electric field imaging pretouch for robotic graspers," Proceedings of IEEE/RSJ International Conference on Intelligent Robots and Systems, IROS 2007, pp.676-683, Oct. 29 2007-Nov. 2 2007.

B. Jiang, A. P. Sample, R. Wistort, and A. V. Mami-shev, "Autonomous Robotic Monitoring of Underground Cable Systems," Proceedings of International Conference on Advanced Robotics, 2005.