

# Fayette W. Shaw

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Education	<b>University of Washington</b> , Seattle, WA M.S. in Mechanical Engineering	Jun 2006
	<b>Carnegie Mellon University</b> , Pittsburgh, PA B.S. in Mechanical Engineering Minors: Robotics, Physics	Aug 2003
Coursework	<i>Controls</i> : Linear Multivariate Optimal Control, Robust Control, System Identification, Digital Control <i>Robotics</i> : Robotic Manipulation, Mobile Robot Programming Laboratory, Mechatronic Design <i>Math</i> : Mathematical Foundations of Control Theory, Kinematics and Dynamic Systems	
Experience	<b>University of Washington</b> , Seattle, WA <i>Self Organizing Systems, Electrical Engineering Dept</i> Analyzed DNA conformations in order develop new models for efficient computation. Developed infrastructure for molecular dynamics simulation research. <a href="http://faculty.washington.edu/klavins/research.html">http://faculty.washington.edu/klavins/research.html</a>	<i>Lab Assistant</i> Jan 2004 – Mar 2005
	<b>University of Washington</b> , Seattle, WA <i>Mechanical Engineering Department</i> Assisted in instruction of ME471 Automatic Control and 373 Dynamic Systems. Instructed students in office hours and review sessions. Graded assignments and exams.	<i>Teaching Assistant</i> Sep 2004 – Mar 2005
	<b>Segway, LLC</b> , Bedford, NH <i>Product Development</i> Designed and implemented proof-of-concept prototype based on market study. Implemented radio control and user interface on Segway Robotic Mobile Platform (RMP). <a href="http://www.segway.com">http://www.segway.com</a>	<i>Summer Intern</i> Jun 2004 – Sep 2004
	<b>Robotics Institute</b> , Pittsburgh, PA <i>Robotic Soccer Segway</i> Designed and implemented soccer ball catching mechanism for Segway RMP. Demonstrated robot at American Open 2004. <a href="http://www-2.cs.cmu.edu/~robosoccer/segway/">http://www-2.cs.cmu.edu/~robosoccer/segway/</a>	<i>Lab Assistant, CORAL Lab</i> Mar 2004 – Jun 2004
	<b>Robotics Institute</b> , Pittsburgh, PA <i>Life in the Atacama, Field Robotics Center</i> Developed instrumentation configuration and concepts of operation for NASA-sponsored robot. Wrote Matlab scripts for statistical analysis. Coauthored technical report and maintained website. <a href="http://www.frc.ri.cmu.edu/atacama/">http://www.frc.ri.cmu.edu/atacama/</a>	<i>Research Assistant</i> May 2002 - Dec 2003
Project Work	<b>Mechatronic Design Class Project</b> Conceptualized and fabricated an automated four-bar linkage pancake flipper. Integrated microprocessor, electronics, and system components.	Spring 2003
	<b>Senior Mechanical Engineering Design Project</b> Designed and built motorized walker to assist the elderly. Performed community service at local assisted-living environment.	Fall 2002
Skills	<i>Software Tools</i> : Matlab, Simulink, Mathematica, ANSYS, Solidworks, MS Office, $\LaTeX$ , HTML <i>Programming Languages</i> : C, C++, Java <i>Machining Skills</i> : Bandsaw, Mill, Lathe, TIG Welding	
Activities	University of Washington Women's Ultimate Frisbee Red Team Racing, Mapping Team 2004 DARPA Grand Challenge	Oct 2004 – present Jan 2004 – Mar 2004