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Fayette W. Shaw

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Education	University of Washington , Seattle, WA M.S. in Mechanical Engineering	Jun 2006
	Carnegie Mellon University , Pittsburgh, PA B.S. in Mechanical Engineering Minors: Robotics, Physics	Aug 2003
Coursework	Digital Control Multivariate Linear Control Mechatronic Design	Discrete Event Systems Kinematics, Dynamic Systems, and Control Robotic Manipulation
Experience	University of Washington , 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
	Segway, LLC, 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). Received technician's and coach's certification and delivered technical training presentations. http://www.segway.com	<i>Summer Intern</i> Jun 2004 { Sep 2004
	Robotics Institute , Pittsburgh, PA <i>Robotic Soccer Segway</i> Designed and implemented soccer ball catching mechanism. Maintained Segway RMP hardware. Demonstrated robot at American Open 2004. http://www-2.cs.cmu.edu/~robosoccer/segway/	<i>Lab Assistant</i> Mar 2004 { Jun 2004
	Robotics Institute , Pittsburgh, PA <i>Life in the Atacama</i> Developed instrumentation configuration and concepts of operation for NASA-sponsored robot. Wrote Matlab scripts for statistical analysis. Authored technical content and maintained website. http://www.frc.ri.cmu.edu/atacama/	<i>Research Assistant</i> May 2002 - Dec 2003
Project Work	Mechatronic Design Class Project Conceptualized and fabricated an automated four-bar linkage pancake lifter. Integrated microprocessor, electronics, and system components.	Spring 2003
	Senior Mechanical Engineering Design Project Designed and built motorized walker to assist the elderly. Performed community service at local assisted-living environment.	Fall 2002
Skills	<i>Software:</i> Matlab, Simulink, Mathematica, ANSYS, Solidworks, MS Office <i>Programming Languages:</i> C, C++, Java, \LaTeX , HTML <i>Machining Skills:</i> Bandsaw, Mill, Lathe, TIG Welding	