Fayette W. Shaw

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Education	**University of Washington**, Seattle, WA	Jun 2006
	M.S. in Mechanical Engineering	
	Carnegie Mellon University, Pittsburgh, PA	Aug 2003
	B.S. in Mechanical Engineering	
	Minors: Robotics, Physics	

Coursework	Dynamic Networked Systems	Discrete Event Systems
	Linear and Multivariate Systems	Kinematics, Dynamic Systems, and Control
	Mechatronic Design	Robotic Manipulation

Experience

University of Washington, Seattle, WA — *Teaching Assistant*
Mechanical Engineering Department — Sep 2004 – Mar 2005
Assisted in instruction of ME471 Automatic Control and 373 Dynamic Systems.
Instructed students in office hours and review sessions. Graded assignments and exams.

Segway, LLC, Bedford, NH — *Summer Intern*
Product Development — Jun 2004 – Sep 2004
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

Robotics Institute, Pittsburgh, PA — *Lab Assistant*
Robotic Soccer Segway — Mar 2004 – Jun 2004
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/

Robotics Institute, Pittsburgh, PA — *Research Assistant*
Life in the Atacama — May 2002 - Dec 2003
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/

Project Work

Mechatronic Design Class Project — Spring 2003
Conceptualized and fabricated an automated four-bar linkage pancake flipper.
Integrated microprocessor, electronics, and system components.

Senior Mechanical Engineering Design Project — Fall 2002
Designed and built motorized walker to assist the elderly.
Performed community service at local assisted-living environment.

Skills

Software: Matlab, Simulink, Mathematica, ANSYS, Solidworks, MS Office
Programming Languages: C, C++, Java, LaTeX, HTML
Machining Skills: Bandsaw, Mill, Lathe, TIG Welding

Activities

University of Washington Women's Ultimate Frisbee	Oct 2004 – present
Red Team Racing, Mapping Team	Jan 2004 – Mar 2004
2004 DARPA Grand Challenge	