

Katrina M. Appell

<http://www.umich.edu/~appell>

Industrial and Operations Engineering
University of Michigan
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Education

- | | | |
|----------------|---|--------------------------|
| 2004 - Present | University of Michigan
College of Engineering
Ph.D Candidate Industrial and Operations Engineering,
Expected August 2010
Topic: Lean Research and Development: The Role of Standardization
Advisor: Dr. Jeffrey K. Liker | Ann Arbor, MI |
| 2004 - 2006 | College of Engineering
M.S.E. Industrial and Operations Engineering, April 2006 | Ann Arbor, MI |
| 1999 - 2003 | University of Illinois
College of Engineering
B.S. General Engineering, December 2003
Fields of Concentration: Quality Control, Business Administration | Urbana-
Champaign, IL |

Research Experience

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| 2006 - Present | University of Michigan
Graduate Student Research Assistant: Lean Research and Development Grant <ul style="list-style-type: none">• Explored the application of lean to research and development.• Focused on the role of standardization.• Successfully developed and presented annual proposals to continue research funding from industry sponsor (3.5 years). |
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Presentations

- Katrina M. Appell, "Lean Thinking in R & D: The Case of Design Guides" Decision Sciences Institute Annual Conference, Baltimore, MD (November 2008).
- Katrina M. Appell, "Lean Thinking in Research & Development" INFORMS Annual Conference, Seattle, WA (November 2007).

Teaching Experience

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| Fall 2009 | University of Michigan: Center for Research on Learning and Teaching
Engineering Graduate Student Instructor Mentor Trainee (Will Serve as a Mentor in Winter 2010) <ul style="list-style-type: none">• Facilitated new GSI practice teaching sessions.• Received training to provide teaching related consulting services to GSIs. |
| Fall 2009 | University of Michigan: Industrial and Operations Engineering
Graduate Student Instructor: IOE 425: Manufacturing Strategies |
| Fall 2005 | Graduate Student Instructor: IOE 421: Work Organizations |
| Fall 2003 | University of Illinois: General Engineering
Laboratory Teaching Assistant: GE 225: Instrumentation and Test Lab |
| Spring 2003 | |

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Industry Experience

- 2006 - Present **University of Michigan: Center for Professional Development**
Lean Simulation Facilitator
- Facilitated role playing simulations to convey the benefits of implementing lean principles in various contexts (Manufacturing, Healthcare, Office Environments, Logistics).
 - Traveled to domestic and international client sites supporting custom courses.
- Summer 2008 **Whirlpool Corporation** Benton Harbor, MI
Engineering Intern
- Participated in workshops mapping research processes to identify current practices and create standardized best practices.
 - Used ARIS business process mapping software to document research and design guide processes.
 - Key team member on design guideline system team resulting in the guideline system being successfully launched and utilized.
- Summer 2007 Corporate Innovation & Technology Intern: Fabric & Surface Care
- Explored knowledge utilization process resulting in the formation of a global team to develop a design guideline system.
 - Participated on the Leading the Whirlpool Enterprise First Launch Team.
 - Explored the use of Set-Based Research and Product Development methods leading to implementation within the organization.
 - Member of CIT Robust Process Team
 - Identified routine tasks in research process for standardization.
- Summer 2006 Corporate Innovation & Technology Intern: Fabric & Surface Care
- Led lean implementation efforts in the laboratory environment.
 - Visual management for project scheduling and status
 - Standardization of routine aspects of the testing process
 - Member of CIT Robust Process Team
 - Utilized 20 key assessment to understand current processes.
 - Identified core processes to categorize research processes.
- Summer 2005 **Center for Automotive Research** Ann Arbor, MI
Research Associate
- Aided member groups of the United Tooling Coalition in the implementation of lean manufacturing.
 - Facilitated lean working group meetings.

Honors & Awards

- 2004 - Present University of Michigan Industrial and Operations Engineering Ph.D. Fellow
2004 - 2005 Dwight F. Benton Fellow
2003 Robert Jewett Award (To a junior in General Engineering with outstanding leadership qualities)
2002,2003,2004 General Engineering Service Award
2002 Gamma Epsilon General Engineering Honor Society

Service / Leadership Positions

- 2007 - Present Women in Engineering IOE Graduate Student Peer Advisor
2006 - 2007 University of Michigan INFORMS Student Chapter - Events / Social Chair
2005 - 2006 University of Michigan INFORMS Student Chapter - Treasurer
2003 University of Illinois Gamma Epsilon - Secretary
2002 - 2003 University of Illinois Gamma Epsilon - President
2001 - 2002 Illinois Society of General Engineers - Engineering Open House Chair
2002 - 2003 Illini Waterski and Wakeboard Team - Treasurer
2001 - 2002 Illini Waterski and Wakeboard Team - Vice-President