

## **John D Hill**

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### **ACADEMIC BACKGROUND**

HENRY B. TIPPIE SCHOOL OF MANAGEMENT UNIVERSITY OF IOWA MBA, May 2007	Iowa City, IA
UNIVERSITY OF IOWA PhD, Industrial Engineering, July 2006	Iowa City, IA
PURDUE UNIVERSITY MS, Engineering, May 2002	West Lafayette, IN
MICHIGAN TECHNOLOGICAL UNIVERSITY BS, Mechanical Engineering, February 1999	Houghton, MI

### **PROFESSIONAL HISTORY**

INDIANA UNIVERSITY Clinical Assistant Professor – Ops and Decision Technologies	Bloomington, IN August 2013-present
MICHIGAN TECHNOLOGICAL UNIVERSITY Assistant Professor – Mech Engrg / Service Systems Engrg Adjunct Professor – Cognitive and Learning Sciences	Houghton, MI 2009-2013
EATON CORPORATION CLUTCH DIVISION Engineering Manager – R&D	Auburn, IN 2007-2009
TRINE UNIVERSITY Adjunct Professor – School of Business	Angola, IN 2008
UNIVERSITY OF IOWA Post Doctoral Researcher	Iowa City, IA 2006-2007
UNIVERSITY OF IOWA Research Assistant – Human Factors and Statistical Modeling Lab	Iowa City, IA 2004-2006
GENERAL MOTORS CORPORATION Product Development Engineer	Warren, MI 1999-2003

## **PUBLICATIONS**

### **Accepted Journal Articles**

1. Hill, J. & Boyle L. (2006) Assessing the Relative Risk of Severe Injury in Automotive Crashes for Older Female Occupants. *Accident Analysis and Prevention*, Vol 38, no 1, pp 148-54.
2. Hill, J. & Boyle L. (2006) The Safety Implications of Vehicle Seat Adjustments. *Journal of Safety Research*, Vol 37, no 2, pp 187-93.
3. Hill, J. & Boyle L. (2007) Stress as Influenced by Driving Maneuvers and Roadway Conditions, *Transportation Research, Part F*, Vol 10, no 3, pp 177-186.

### **Conference Proceedings**

1. Hill, J & Llandro, P (2012) The Effect of Competition on Supply Chain Decision Making. In *Proceedings of 2012 Industrial and Service Engineering Research Conference*, Orlando FL
2. Hill, J & Salzman, J (2012) Effects of Training on Speed Perception in a Driving Simulator. In *Proceedings of HFES 2012 Annual Meeting*, Boston MA.
3. Sepoori, M & Hill, J (2012) Human Factors in a Compact Mobile Workspace: A Case Study in Patrol Vehicles. In *Proceedings of 4<sup>th</sup> International Conference on Applied Human Factors and Ergonomics*, San Francisco CA
4. Hill, J & Salzman, J (2010) Injury Risk to Snowmobile Operators in Crashes near Roadways. In *Proceedings of the 2010 Mid-Continent Transportation Research Forum*, Madison WI
5. Boyle, L, Hill, J et al. (2007) The Effects of Sleep Apnea on Heart Rate Variability in a Simulator. In *Proceedings of the Fourth International Driving Symposium on Human Factors in Driver Assessment, Training and Vehicle Design*
6. Hill, J (2005) Differences in Crash Injury Severity Among Older Drivers in the State of Iowa Compared with National Trends. In *Proceedings of the 2005 Mid-Continent Transportation Research Symposium*, Ames, IA

### **Presentations at Technical and Professional Meetings**

1. The Effect of Competition on Supply Chain Decision Making. 2012 Industrial and Service Engineering Research Conference, Orlando FL
2. Educating Students in Service Systems. 2009 INFORMS, San Diego, CA October 2009
3. A Curriculum for Engineering Service Systems. 2010 ASEE Conference, Louisville, KY June 2010
4. How Can we Reduce Officer Traffic Fatalities? 2012 National Institute of Justice Annual Conference, Washington DC, June 2012

5. Characteristics of Repeat IID Offenders. 2011 Wisconsin Governor's Conference on Highway Safety, Green Bay, WI August 2011
6. Assessing the Relative Risk of Severe Injury for Older Female Occupants, 117<sup>th</sup> Annual Iowa Academy of Sciences. April 2005, Winner of Best Paper Award.
7. The Effects of Driver Characteristics and Perceptions on Stress in Adverse Weather. 2006 TRB Annual Conference, Washington DC, January 2006
8. On Road Driving Studies: Opportunities and Limitations for Assessing Driver Response to Environmental Stressors. 2010 IE Research Conference, Cancun MX, June 2010

## **TEACHING**

### **Indiana University**

- Course C520 Quantitative Analysis (3 credits), Summer 2013

### **Michigan Technological University**

- Course SSE2100 Introduction to Service Systems Engineering (3 credits), Fall 2009, Fall 2010, Fall 2011
- Course SSE3500 Service Systems Operations (3 credits), Fall 2009, Spring 2011, Spring 2012, Spring 2013
- Course MEEM4655 Production Planning (3 credits), Spring 2011, Spring 2012, Spring 2013
- Course MEEM5990 Modeling Operator Performance in Engineered Systems (3 credits), Fall 2011
- Course ENG4900 Senior Design (3 credits), Spring 2011
- Course MEEM4650/5650 Quality Engineering/Adv Quality Engineering (3 credits) Fall 2012
- Course MEEM5680 Optimization I (3 credits), Fall 2012

### **Trine University**

- Course BA423 Venture Planning (3 credits), Adjunct Professor, Spring 2008

## **FUNDED RESEARCH**

Hill, JD and Boyle, LN. Examination of crash injury severity among older female drivers and occupants, Iowa Department of Transportation \$30,000, 2004-2005 (PI)

Hill, JD and Boyle, LN. Analysis of injuries associated with the lower extremities among older women, Iowa Injury Prevention Research Center \$15,000, 2004-2005 (PI)

Hill, JD and Boyle, LN. Driver Behavior at Expressway Intersections, Iowa Department of Transportation \$60,000, 2006-2007 (PI)

Hill, JD and Boyle, LN. Spatial and Temporal Differences in Midwestern Crashes Relative to National Data: Public Policy Implications, Midwest Transportation Consortium \$60,000, 2007-2008 (PI)

Hill, JD. Identifying Costs and Funding Alternatives for Equipping Operating While Intoxicated (OWI) Offenders with Ignition Interlock Devices (IIDs), Wisconsin Department of Transportation \$46,224, 2010-2011 (PI)

Hill, JD. Establishing Virtual Transportation Research at Michigan Tech, Michigan Technological University REF Seed Grant \$10,000, 2010-2011 (PI)

Hill, JD, Tavakoli, MK and Fornari, J. Optimized Placement of Mounted Equipment within Patrol Vehicles during Side Impact Crashes, National Institute of Justice \$196,686, 2010-2012 (PI)

Hill, JD, Brooks, CN, Erickson, T and Kazoil, B. Integrating Clarus Weather Station Data and State Crash Data into a Travel Decision Support Tool \$79,998 (19,780 for Hill), 2010-2011 (PI)

Lautila, P, Hill, JD, Harris, D and Sanders, P. University Transportation Center (UTC) proposal for National University Rail Transportation and Education Center (NURail) \$400,000 (60,000 for Hill), 2012-2014 (Co-PI)

## **PROFESSIONAL ACTIVITIES**

Institute of Industrial Engineers

Human Factors and Ergonomics Society

Reviewer for *Accident Analysis and Prevention*

Reviewer for *IIE Transactions on Occupational Ergonomics and Human Factors*

Reviewer for the *Journal of Human Factors*

Session Chair for 2012 Industrial and Service Systems Engineering Research Conference

Session Chair for 2013 Industrial and Service Systems Engineering Research Conference

## **SERVICE ACTIVITIES**

Service Systems Engineering Steering Committee (2009-2012)

MEEM Graduate Seminar Committee (2009-2011)

Human Factors Chair for the Transportation Strategic Hiring Initiative (2011-2012)

MEEM Undergraduate Curriculum Committee (2012)

MEEM Faculty Development Committee (2012)