

RICHARD A. IVEY

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Education

North Carolina State University – Raleigh, NC

Masters of Integrated Manufacturing Systems Engineering, May 2009

- ♦ GPA: 4.0

Auburn University – Auburn, AL

Bachelors of Industrial & Systems Engineering, *cum laude*, May 2007

- ♦ GPA: 3.8 (major), 3.4 (overall)

Certification & Training

- ASQ Certified Six Sigma Black Belt
- Lean Systems Design & Methodologies
- OSHA 10-hour Training Course

Experience

Vanderbilt Heart & Vascular Institute – Nashville, TN

Quality Intern, May-December 2008

- Facilitating data-driven process improvement projects
- Leading a concentrated effort to maximize patient satisfaction and provide quality of care in a cost-effective manner
- Gaining valuable experience in the clinical setting during each phase of the improvement projects

WakeMed Hospital – Raleigh, NC

Performance Improvement Intern, Spring 2008

- Led a project to reduce the amount of supplies unnecessarily discarded due to contamination
- Followed the Six Sigma methodology to determine root-causes and identify areas for improvement
- Presented recommended solution methods to reduce the amount of supplies wasted hospital-wide

International Research Program – Kiev, Ukraine

Researcher in U.S.-Ukraine Research Experience for Students, July 2007

- Conducted research with graduate students in Ukraine using mathematical optimization techniques

Texas A&M University – College Station, TX

REU Participant, Department of Industrial & Systems Engineering, Summer 2006

- Studied inventory control and facility location problems in supply chains
- Aided in developing mathematical models that reflect the integration of inventory and location

Auburn University – Auburn, AL

Research Assistant, Department of Industrial & Systems Engineering, Spring 2006

- Conducted interviews to investigate supply chain operations of local bookstores
- Developed presentation slides to be used in a supply chain management class

University of Oklahoma – Norman, OK

Research Assistant, School of Civil Engineering, December 2005-December 2006

- Recruited to provide technical direction from remote location based on previous work experience in a research program during Summer 2005
- Contributed to brainstorming, drafting, and completing manuscripts that led to co-authorships in scholarly journal publications

REU Participant, Department of Industrial Engineering, Summer 2005

- Processed and analyzed data from laboratory testing of a wireless sensor network
- Created a decision support system using the Analytical Hierarchy Process

ELMCO, Inc. – Huntsville, AL (acquired by Westar Aerospace & Defense in 2003)

Engineering Intern, Test & Evaluation Division, Summer 2003

- Performed systems testing and analysis in accordance with defense technology
- Presented findings to executives at the completion of the appointment

Involvements

- American Society for Quality (ASQ), 2006-present
- Institute for Industrial Engineers (IIE), 2003-present
 - ♦ *Treasurer of Auburn University student chapter, 2006-07*
 - ♦ *Member of Society for Health Systems, 2007-present*
- Institute for Operations Research & Management Science (INFORMS), 2005-08
- Sacred Harp Singer
 - ♦ *Featured on A&E Cold Mountain Special, 2004*
 - ♦ *Appearance on Oscar's Academy Awards Show, 2004*
- Graduate of Harry Wendelstedt School for Umpires, 2004
- Auburn University Student Tigers Unlimited, 2002-07
- Capital City Umpires Association (Raleigh, NC), 2007-08
- Greater Huntsville Umpires Association, 2002-06
- Alexander City Baseball Umpires Association, 2002-07

Awards & Achievements

- NC State Carl F. Zorowski Scholarship, 2007-08 academic year
- Alpha Pi Mu (Industrial Engineering National Honor Society), inducted May 2007
- National Science Foundation Engineering Scholarship, 2006-07 academic year
- Sacred Harp Publishing Company Scholarship, 2002-06
- Joe Beasley Memorial Foundation Scholarship, 2003-06
- Harry Wendelstedt School for Umpires top 30 graduate, 2004

Journal Publication

“Development and Validation of ‘Smart Dust’ for Pavement Condition Monitoring,” Pei, J.S., Ivey, R.A., et al. *International Journal of Structural Health Monitoring*, submitted in December 2006.

Computer Skills

MINITAB, JMP (SAS Worksheet View), MS Access, MS Excel, Arena, AutoCAD, LINGO, Matlab, Solid Edge, LaTeX, Adobe Illustrator, Adobe Photoshop, Macromedia Dreamweaver