



Aaron Armstrong

Associate Professor, Mechanical Engineering

Degree with Fields, Institution, and Date

- Doctor of Philosophy, Industrial and Systems Engineering, Univ of WI--Madison, 2010
- MS, Business, Univ of WI--Madison, 1998
- MS, Manufacturing Systems Engineering, Univ of WI--Madison, 1996
- BS, Chemical Engineering, Univ of WI--Madison, 1993

Years of Service on this Faculty: 8

Date of Original Appointment: September 2010

Advancement in Rank/Position

- Associate Professor, September 2017
- Assistant Professor, September 2010

Other Teaching Experience

- University of Wisconsin-Madison, College of Engineering - Instructor (2009-2010)
- University of Wisconsin-Madison, School of Business - Executive Education Management Institute Instructor (2004-2007)
- University of Wisconsin-Madison, School of Business - Teaching Assistant (1996-1998)

Industrial Experience

- Armstrong Engineering, LCC – President (2010 – present)
- Build-To-Demand, Inc., Chief Technical Officer (2011 – 2016)
- University of Wisconsin-Madison, College of Engineering - Research Assistant (2008-2010)
- John Deere Commercial and Consumer Equipment Division

- Senior Supplier Development Engineer (2005-2008)
- Supplier Flexibility and Continuity Special Assignment (2002-2005)
- Midwest Supplier Development Manager (2000-2002)
- Supplier Development Engineer (1998-2000)
- Fab-Tech STL - Plant Manager (1994-1995)
- Research Products Corporation - Engineering Chemical Specialist (1994)
- Best-Ex, Inc. - Light Metals Machinist (1992-1993)
- 3M - Technical Aide (1991)
- Cirrus Design - Production Technician (1990)

Publications

- Anderson D., Possamai O, & Armstrong A., Methods of Learning in Product Development Contexts. American Journal of Industrial and Business Management, November 2015, 5, 699-704
- Armstrong, A. & Diehl, G., Lean Needs both Pictures. Industrial Engineer Magazine - 47(10) October 2015
- Diehl, G. & Armstrong, A., "Making MRP Work." Industrial Engineer - Engineering and Management Solutions at Work 43(11) November 2011
- Zhang, C., Zheng, L., Zhang, Z., Shi, L., & Armstrong, A., "The Allocation of Berths and Quay Cranes by Using a Sub-gradient Optimization Technique," Computers & Industrial Engineering, Volume 58 (1), February 2010
- Armstrong, A., "QRM in Action: Mass Customization in Lawn and Garden Tractor Production," Sixth International Conference on Quick Response Manufacturing, Madison, Wisconsin, June 5-7, 2006
- Armstrong, A., "Applying the John Deere Supplier Development Approach to the Plastics Industry," Society of Plastics Engineers 51st Annual Thermoset Molding Conference, Madison, Wisconsin, October 21, 2005
- Armstrong, A., "Emerging Areas in Enterprise Supply Management, Center for Quick Response Manufacturing - Rethinking Supply Management Conference," Madison, Wisconsin, December 13, 2004 and August 23, 2005
- Ericksen, P., Suri, R., El-Jawhari, B., & Armstrong, A., "Filling the Gap - Rethinking Supply Management in the Age of Global Sourcing and Lean," APICS, February 2005
- Armstrong, A., "Supplying OEM's - Meeting the Overseas Threat through Superior Flexibility,"

Minnesota Technology Conference, Plymouth, MN, December 11, 2003

- Armstrong, A., "Effective Order Fulfillment through QRM - Keynote Address," 3rd Annual International Conference on Quick Response Manufacturing, Madison, WI, October 29-30, 2002
- Armstrong, A., "John Deere Supplier Development and the Impact at R&B Grinding," International Manufacturing Technology Conference, Chicago, Illinois, September 6, 2002
- Armstrong, A. & Ku, K., "Process Mapping and Rapid Modeling Techniques as Supply Management Tools," Society of Manufacturing Engineers Quick Response Manufacturing Conference, Madison, Wisconsin, June 7-9, 2000
- Armstrong, A. & Ku, K., "Process Mapping as a Supplier Development Tool," Association for Manufacturing Excellence Conference, Milwaukee, Wisconsin, June 16-17, 1999