

Curriculum Vitae for Dr. Richard J. Jerz, August 2007
Professor of Business and Industrial Engineering, St. Ambrose University

1. **Name and birth date** Dr. Richard Jerz. Born May 6, 1955.
2. **Academic Rank** Professor, full-time, tenured.
3. **Degrees with fields, institutions, and dates** Ph.D., Industrial Engineering, The University of Iowa, 1997.
MBA, St. Ambrose University, 1984.
BS, Industrial Engineering, Illinois Institute of Technology, 1978.
4. **Original appointment and advancement in rank dates** Full-time appointment date: January 1993.
Assistant Professor, January 1993.
Associate Professor, August 2000.
Professor, August 2003.
5. **Other related experience**

1983 - Current, Software Generation Incorporated (SGI), Pleasant Valley, Iowa. Vice President. SGI develops race results software and provides race-reporting services.

2004 - 2006, The University of Iowa, Iowa City, Iowa. Adjunct Professor in Mechanical and Industrial Engineering (MIE), "Design for Manufacturing."

2005, The University of Iowa, Iowa City, Iowa. Adjunct Professor in Mechanical and Industrial Engineering (MIE), "Robotics."

2002 - 2003, The University of Iowa, Iowa City, Iowa. Adjunct Professor in Mechanical and Industrial Engineering (MIE), "Manufacturing Processes."

1991 - 1992, Komar Industries, Groveport, Ohio. Manager of Engineering, Controls, and Information Systems. Responsible for managing product design engineering, computer networking and information systems, and advanced man-machine control systems.

1991, Deere & Company, Financial Services, Moline, Illinois. Responsible for developing computer network applications and personnel training.

1988 - 1991, Deere & Company Technical Center, Operations, Moline, Illinois. Responsible for implementing and administering computer operations including personal computers, mini-computers, and mainframe computer applications. Trained personnel. Installed a worldwide fully integrated electronic mail system.

1988 - 1991, St. Ambrose University, Davenport, Iowa. Adjunct Professor, College of Business. Taught Operations Management for the MBA program.

1980 - 1988, Deere & Company, Manufacturing Research & Development, Moline, Illinois. Responsible for promoting industrial robot and vision technologies application. Consulted with Deere factories about applications, trained factory personnel, developed analysis tools, managed a joint IBM/Deere robotic assembly project, helped install first robotic assembly system at the Des Moines Works factory, co-developed a portable robot repeatability hardware and software system, and co-developed a computer-aided process planning system for setting turning and boring machine operation parameters.

1978 - 1980, John Deere Waterloo Tractor Works, Manufacturing Research and Development, Waterloo, Iowa. Responsible for investigating and installing new-technology manufacturing equipment.

1976 - 1978, John Deere Waterloo Tractor Works, Waterloo, Iowa. Co-op student.
6. **Consulting, patents, etc.**

Consulting and Professional Activities

2004, Seat Identification prior to Shipment Project. Sears Manufacturing, Davenport, IA.

11/2000 – 11/2001, Scott County Decategorization Community Integrated Services System Initiative (CISS) Grant. Technical advisor.

10/2000 – 1/2002, Master's of Orthotic Science Degree Program, St. Ambrose University. Advisory board member.

1999 - 2003, Advanced Rotary Division of Labor, Fulton, Illinois. CAD consultant.

1999 - 2003, Scott Community College CAD Council, Davenport, Iowa. Advisory board member.

2001, "Incorporating Process Planning into Conceptual Design," National Research Council (NRC) and National Institute of Standards and Technology (NIST). Postdoctoral research proposal, not funded.

1999 - 2000, Tech Prep Advisory Council, Mississippi Bend AEA, Davenport, Iowa. Advisory board member.

2/2000, Quad City Engineering & Science Council, "Partnering in Engineering and Science Education", St. Ambrose University Convention Center, Davenport, Iowa. Panel speaker.

1996, St. Ambrose University MBA Student Database Development. Consultant.

1995, "Organizing Employees, Equipment, and Processes", seminar provided to the City of Davenport, sponsored by SAU Professional Development Center. Instructor.

1993, "Automated Highway System," The University of Iowa, Director Dr. James Buck, Industrial Engineering Department. Research assistant.

Professional Presentations

Jerz, R., "Producing Multimedia Training Materials: Tools and Techniques," SolidWorks World 2007, New Orleans, Louisiana, February, 2007.

Jerz, R., Fischer, G., "Experiences in Designing a Design for Manufacturing (DFM) Course,"

- ASEE Annual Conference, Portland, Oregon, June 2005.
- Jerz, R., "Creating Multimedia Courseware for an Engineering Graphics Course," ASEE Annual Conference, Montreal, Canada, June 2002.
- Jerz, R., "Redesigning Engineering Graphics to Include CAD and Sketching Exercises," ASEE Annual Conference, Montreal, Canada, June 2002.
- Jerz, R., "Combining the Resource Consumption Model (RCM) and the Cambridge Engineering Selector (CES) to Analyze Product Design" Symposium on Materials and Process Selection, Euromat, Rimini, Italy, June 2001.
- Jerz, R., "How CAD Forces Changes to Engineering Graphics Education," ASEE Annual Conference, Albuquerque, New Mexico, June 2001.
- Jerz, R., "What Can Solids Modeling Eliminate from Engineering Graphics Education?" SolidWorks World, Orlando, Florida, February 2001.
- Jerz, R., "A Resource Consumption Model (RCM) For Process Design," 2nd International Conference on Engineering Design and Automation, Maui, Hawaii, August 1998.
- Jerz, R., "Experiences in Continuous Improvement of Computer-Aided Manufacturing Systems," ASEE Annual Conference, Seattle, Washington, June 1998.
- Jerz, R., Hill, T., Opar, M., and Kanzaki, G., "An Integrated Education for ABET 2000: Experiences from a Small University," ASEE Annual Conference, Seattle, Washington, June 1998.
- Jerz, R., "Utilizing Modern Computer Development Tools In Implementing The Resource Consumption Model for Process Design (RCM)," Industrial Engineering Research Conference '98, Banff, May, 1998.

St. Ambrose University Activities

- 9/2006 - current, MBA Admissions Committee member.
- 4/2005, College of Business MBA committee member, new leveling course development.
- 9/2001- 6/2003, Promotion, Tenure, and Standards Committee, member.
- 3/2002 – 10/2002, Promotion, Tenure, and Standards Subcommittee on Scholarship, member.
- 10/2001, College of Business MBA Internship Committee, member.
- 2/2001, College of Business International MBA Committee, member.
- 9/2000 – 6/2002, College of Business Administrative Council, member.
- 8/1998 - 6/2002, Chair, Industrial Engineering Program.
- 1/1993 - 6/2002, Industrial Engineering Lab Coordinator.
- 4/2001, Special Investigator for International MBA Program Offering, Shenyang, China.
- 2001 Spring, International MBA Committee, member.
- 2000-2001, College of Business, Operations Research Faculty Search Committee, member.
- 2000, MBA Mission Statement Committee, member.
- 2000, SAU Visioning Committee, member.
- 8/1998 - 5/2000, SAU Board of Studies Committee, member
- 1999 Spring, Distance Learning Committee, member
- 1996, SAU Professional Development, Mini MBA Instructor.
- 1995, Copy Machine Planning Committee, member.
- 1993, Network Advisory Committee, member.
- 1993, Network Personnel Committee, member.

Other Professional Activities

- 2004, 2005, 2006, Engineering Economist Journal committee for candidates for Grant Award (best journal paper).
- 2/2005, ASEE 2005 National Conference, paper reviewer for Manufacturing Division.
- 2004, Institute of Industrial Engineers/Engineering Economy Division: Eugene L. Grant Award Committee/Board of Director, member.
- 2/2003, ASEE2002 National Conference, paper reviewer for Manufacturing Division.
- 7/2002, Contributor to "Engineering Design with SolidWorks 2001Plus," D.C. Planchard and M.P. Planchard, Schroff Development Corporation, 2002.
- 3/2002, Manuscript reviewer for "Technical Graphics Communication" by Gary Bertoline, McGraw-Hill.
- 1993 - 2002, EurAupair, community counselor.
- 2/2002, ASEE2002 National Conference, paper reviewer for Multimedia and ABET Divisions.
- 11/2001, DAAD Applicant to visit and assess engineering education in Germany, not funded.
- 3/2001, 2001 IIE Regional Conference for Regions 8 & 11, Iowa City, Iowa. Technical Paper contest judge.
- 2/2001, "A Template-Based Intelligent Process Planning System of Engine Crankshafts," Computers & Industrial Engineering Journal, article reviewer.
- 4/1998, "CAD in Education" Workshop, Mississippi Bend AEA, Davenport, Iowa. Workshop organizer.

External Grants

- 2003, The University of Iowa, Instructional Improvement Awards, "Acquisition of SolidWorks CAD for DFM Course," proposal not funded.

2003, The University of Iowa Academic Technologies Advisory Council, Innovations in Instructional Computing Awards, "Compress Time with Instructional Videos," proposal not funded.
 2003, Iowa College Foundation (ICF) Technology Integration Grant, "Prenatal Exam Video," \$2,000 awarded.
 1997, Society of Manufacturing Engineers Educational Foundation Grant (\$40,000) to improve IE lab software.
 1997, Jerz, R. and Welke, H., "3D CAD Pilot Project for Bettendorf High School," Scott County Regional Authority (Riverboat Grant) for Bettendorf High School, Bettendorf, Iowa, \$20,000 Grant Awarded for CAD software and curriculum development.
 1997, Society of Manufacturing Engineers Educational Foundation Grant to improve solids modeling capabilities and redevelop courses, \$74,000, not funded.

Volunteer

1/2001-current, Math Tutor, Bettendorf Middle School, Bettendorf, Iowa.
 9/1999-5/2000, School Board Liaison, Paul Norton Elementary School.
 9/1997-6/1998, Computer Lab Coordinator, Paul Norton Elementary School, Davenport, Iowa.
 9/1996-6/1998, Computer Lab Assistant, Paul Norton Elementary School, Davenport, Iowa.
 9/1997-5/2000, Ski Club Advisor, St. Ambrose University.

- 7. State(s) registered as a Professional Engineer** None
- 8. Principal publications of last ten years**
- Jerz, R., Fischer, G., "Experiences in Designing a Design for Manufacturing (DFM) Course," ASEE Annual Conference, Portland, OR, June 2005.
 Jerz, R., "Creating Multimedia Courseware for an Engineering Graphics Course," ASEE Annual Conference, Montreal, Canada, June 2002.
 Jerz, R., "Redesigning Engineering Graphics to Include CAD and Sketching Exercises," ASEE Annual Conference, Montreal, Canada, June 2002.
 Jerz, R., "How CAD Forces Changes to Engineering Graphics Education," ASEE Annual Conference Proceedings, Albuquerque, New Mexico, June 2001.
 Jerz, R., "Combining the Resource Consumption Model (RCM) and the Cambridge Engineering Selector (CES) to Analyze Product Design" Symposium on Materials and Process Selection, Euromat, Rimini, Italy, June 2001.
 Jerz, R. and Hustedde, M., "Writing Intensive in the Industrial Engineering Classroom," Longman Journal, January 2001 (submitted, not published).
 Jerz, R., "Experiences in Continuous Improvement of Computer-Aided Manufacturing Systems," ASEE Annual Conference Proceedings, Seattle, Washington, June 1998.
 Jerz, R., Hill, T., Opar, M., and Kanzaki, G., "An Integrated Education for ABET 2000: Experiences from a Small University," ASEE Annual Conference Proceedings, Seattle, Washington, June 1998.
 Jerz, R., "Utilizing Modern Computer Development Tools In Implementing The Resource Consumption Model for Process Design (RCM)", Industrial Engineering Research Conference '98 Proceedings, Banff, Canada, May 1998.
 Jerz, R., "A Resource Consumption Model (RCM) For Process Design," 2nd International Conference on Engineering Design and Automation Proceedings, Maui, Hawaii, August 1998.
 Jerz, R., "A Resource Consumption Model (RCM) for Process Design," Dissertation, The University of Iowa, Industrial Engineering, December 1997.
- 9. Scientific and professional societies**
- American Production and Inventory Control Society (APICS) - member since 1993.
 American Society for Engineering Education (ASEE) - member since 1997.
 American Society of Mechanical Engineers (ASME) - 1994 to 2002.
 Institute of Industrial Engineering (IIE) - member since 1976.
 Quad City Engineering & Science Council, member since 1999.
 Society of Manufacturing Engineers (SME) - member since 1980.
- 10. Honors and awards**
- United States Department of Energy - Integrated Manufacturing Predoctoral Fellowship, 1995.
 Graduated with high honors from Illinois Institute of Technology, 1978.
 Outstanding Undergraduate in Industrial Engineering, Illinois Institute of Technology, 1978.
 Cooperation Education Special Recognition Award, Illinois Institute of Technology, 1978.
 Life member of Tau Beta Pi engineering honor fraternity.
 Member of Alpha Pi Mu Industrial Engineering honor fraternity.
- 11. Subjects or courses taught including hours and sections**
- Most Recent Year
 Operations Management (MBA670-graduate), 3 hrs.
 Operations Management (STBE333), 3 hrs.
 Business Statistics (STBE337), 3 hrs.
- Previous years

Engineering Graphics (IE110), 3 hrs.
 Introduction to Microcomputers (IE290), 3 hrs, 2 sections.
 Manufacturing Materials & Processes (IE295), 3 hrs.
 Introduction to Design for Industrial Engineers (IE304), 3 hrs.
 Operational Planning, Scheduling and Control (IE350), 3 hrs.
 Computer-Aided Manufacturing Systems (IE375), 3 hrs.
 Professional Experience (IE450), 3hrs, 1 section
 Systems Integration & Design (IE415), 3 hrs.
 Senior Design Seminar (IE490), 3 hrs.
 Industrial Engineering Seminars (IE201, IE301, and IE401), 0 hrs.
 Introduction to Computer Science (CSCI120), 3 hrs.s
 New Student Seminar (NSS), 1 hr.

12. Other assigned duties performed during the academic year, with average hours per week; indicate which carry extra compensation

Assigned duties during academic year
 Class Preparation and Instruction, 31 hours.
 Student Advising, 3 hours.
 St. Ambrose Committees and Activities, 6 hours.

13. Specific programs in which faculty member has participated to improve teaching and professional competence during last five years

Improving Teaching and Professional Competence
 2007, Adobe, Creative Suite 3 Conference, Chicago, Illinois.
 2006, McGraw Hill seminar on Podcasting, Chicago, Illinois.
 2006, SAU Faculty Development Grant recipient, Podcasting.
 2005, SAU Faculty Development Grant recipient, Animation software.
 2005, SAU Faculty Development Grant recipient for STBE333 – in class testing technology.
 2004, nTITLE multimedia instruction workshop participant, The University of Iowa.
 2003, SAU Faculty Development Grant recipient for industrial control lab development.
 2003, Technology & Education: The Integrated Classroom, Iowa College Foundation/Coe College, Workshop Participant.
 2003, SAU Faculty Development Mini Grant recipient for voice recognition software and webpage development..
 6/2002, “New Approaches in Materials and Manufacturing Education” Seminar, Montreal, Canada, Granta Design Limited, participant.
 2002, SAU Faculty Development Mini Grant recipient for exam creation software.
 2001, SAU Faculty Development Mini Grant recipient for web page improvements.
 1999, SAU Faculty Development Grant recipient for IE110 course redevelopment.
 1999, SAU Title III Grant recipient, Utilizing Technology In The Classroom, Digital Editing.
 1998, SAU Title III Grant recipient, Utilizing Technology In The Classroom, Digital Camera.
 1998, SAU Faculty Development Mini Grant recipient for web page development.
 1998, “Integrating Design Experiences in Engineering Curriculum,” an NSF-sponsored workshop, Seattle, Washington, participant.
 1997, SAU Title III Grant co-author (Dr. Kanzaki), Utilizing Technology In The Classroom, CAD software.
 1996, SAU Faculty Development funding for IE295 course redevelopment.
 1996, “The Economic Principles of Engineering Design”, an NSF-sponsored workshop, Salt Lake City, Utah, participant.
 1995, SAU Title III Grant recipient, Utilizing Technology in the Classroom (CD Technology.)
 1994, SAU Lilly Grant funding for improving teaching pedagogy for IE304.
 1994, SAU Faculty Development Research Grant recipient for “Ergonomic Issues in Controlling Machine Cells.”
 1993, SAU Faculty Development Grant recipient for IE375 course redevelopment.

Training

1995, Visual Basic training, IMG University, Chicago.
 6/1994, Solidworks (CAD) special installation training, Chicago.
 7/1997, Solidworks (CAD) training, Progressive Computing, Mentor, Ohio.
 1998, Solidworks (CAD) training, Computer Aided Technology, Chicago.
 1995, Faculty Development Seminar: Improving Writing Skills in the Classroom, St. Ambrose University.

Conferences and Professional Shows Attended

2007, 2004, 2001, Solidworks World
 2006, 2003, 2002, 2001, National Manufacturers Week, Chicago.
 2005, 2004, 2003, 2002, 2001, 1998, ASEE Annual Conferences.
 2001, Comdex, Chicago.
 2006, 2004, 2000, 1998, 1996, and 1994, International Manufacturing Technology Show, Chicago.
 1998, 2nd International Conference on Engineering Design and Automation, Maui, Hawaii.
 1998, 1996, and 1994, Institute of Industrial Engineers Annual Conference.

1995, 1993, and 1992, Society of Manufacturing Engineers Autofact Conference.