

YIFENG REN

<mailto:yren@astate.edu>

EMPLOYMENT STATUS: US Permanent Resident

SKILLS:

- Engineering Drafting - AutoCAD
- Solid Modeling –Solid Works, Autodesk Inventor, and Pro Engineer Labview and Roblab
- Manufacturing Processes
- CAD/CAM Integration, Master CAM
- Rapid Prototyping Machine (FDM) Operations
- GD&T, FEA
- Reverse Engineering and Computer Aided Measurement
- Lean Manufacturing Techniques
- Microsoft Word, PowerPoint, and Excel

EDUCATION:

- Southeast Missouri State University, Cape Girardeau, MO, spring 2006
Degree: Masters of Science (MS) Degree
Major: Industrial Technology GPA 3.88/4.0
- Huazhong University of Science & Technology, Wuhan, P. R. China, 1982
Degree: Bachelors of Science (B.S) Degree Major: Mechanical Engineering

TEACHING EXPERIENCE:

- 08/2013- CURRENT
- INSTRUCTOR – College of Agriculture & Technology, Arkansas State University, Johnsonboro, AR, USA
Teach Engineering Graphics, Solid Works, Inventor, Pro E, Master CAM, Industrial Safety, Motion and Time study, and CNC.
09/2008- 08/2012
- LECTURER- Department of Engineering Technology and Industrial Distribution, Texas A&M University, College Station TX USA
Teach ENGR 111- Foundations of Engineering I, ENGR 112- Foundations of Engineering II (Engineering Graphics, Solid Works, AutoCAD, Inventor and Labview)
08/2003 – 08/2006.
- GRADUATE TEACHING ASSISTANT, Department of Industrial and Engineering Technology, Southeast Missouri State University, Cape Girardeau, MO, USA. Assisted in teaching Computer-aided Engineering Graphics, Solid Modeling and Rapid Prototype, Architectural Drawing I, Architectural Drawing II, Design Modeling and Processes, and Industrial Production Drafting.
- RESEARCH ASSISTANT- Department of Industrial and Engineering Technology, Southeast Missouri State University, Cape Girardeau, MO, USA. Established a new Computer-aided Measurement Lab using theodolites to perform part quality input and reverse engineering in the department and created many new lab activities
06/1985 – 07/1996.
- ASSOCIATE PROFESSOR, Department of Mechanical Engineering, Wuhan University of Science & Technology, Wuhan, P. R. China.
Taught Engineering Drawing and Geometry Graphics, Design of Machine tools, fixtures and products courses.

WORK EXPERIENCE

- 01/2007 – 09/2008
- MECHANICAL ENGINEER, Sabreliner Co., Perryville, MO.
Experienced CAD/CAM Integration work using SolidWorks and AutoCAD to design parts and assemblies.
- 02/1982 – 08/1985
- MECHANICAL DESIGN ENGINEER, Designed many new products and fixtures. Strong design concepts and GD&T. Wuhan Valve Inc., China.

PROJECT EXPERIENCE:

02/2005 – 05/2005

- Reverse engineering for a motorcycle tank cover.
The project is supported by the Boeing Laser Measurement project team. The object is collected data using theodolites measurement station. Geometry data is processed by Leica AXYZ CDM software. Then, surfaces are generated from ProE. The machining code is obtained in FeatureCAM software after the ProE file is imported. Finally, the part is cut on BridgePort Torq-cut 22 milling center.
Duties /Responsibilities: collected the data of the objects, and determined all surface milling features.

09/2004 – 12/2004

- Lean Manufacturing simulation kit development.
The simulation kit is a multi-product assembly line controlled by a kanban mechanism for lean manufacturing. Three Lego products: an ambulance, a helicopter, and a sailboat, are assembled on the production line. The simulation demonstrated lean manufacturing concepts, such as, 5s, one-piece flow, kanban mechanism, kaizen event, and visual control.

Responsible for the entire turnkey solution including:

Designed and drafted assembly drawings, all parts drawings

Created and established the process design model

Created the product testing for temperature, strength, tension, etc, and ran kanban simulation, and set up workstation layout.

03/1994 – 07/1996

- Improved the production line for a diesel engine crank system. Project was funded by the Hubei Science Council, China.
Duties /Responsibilities: Developed the fixture design database in AutoCAD.

PUBLICATIONS:

- Wang, S., Koch, D., and Ren, Y., “A Hands-On Kanban Simulation Kit for Lean Manufacturing,” Accepted for *Proceedings of The 2008 IAJC-IJME International Conference* (ISBN 978-1-60643-379-9), Nashville, TN, November 18-22, 2008.
- Yifeng Ren, “Implementing Lean Manufacturing in Small and Medium – sized Companies” has been selected for the poster session at the 2006 NAIT Conference in Cleveland in November.
- Yifeng Ren, Shaojun Wang, and Doug Koch, “Design of A Hands-On Kanban Simulation Kit,” *Proceedings of IIE Annual Conference, 2006 IERC, Orlando, FL, May21- 2, 2006.*
- Wang, S., Ren, Y. and Wright, S., “Enhancing Lean Manufacturing Instruction with Hands-on Simulation,” *NAIT 38th Annual Convention: Converging Technologies: Linking Boundaries*, St. Louis, MO, November 16-19, 2005.
- Wang, S., Ren, Y. and Sarker, B. R., “Minimizing work-in-process for an unbalanced assembly line in value stream mapping,” *Proceedings of IIE Annual Conference, 2005 IERC, Atlanta, GA, May 14-19, 2005*, CD version.
- Ren, Y. and Wang, S., “Implementing Six Sigma in small and medium sized manufacturers,” *37th NAIT Annual Convention*, Louisville, Kentucky, October 20-23, 2004.

HONORS AND AWARDS:

- 2006-Received the graduate Student “Excellent in Research” award in Southeast Missouri State University.
- 2004-Dean’s awards list for high GPA in Southeast Missouri State University.

CERTIFICATE:

2006-Autodesk Inventor in “Improving Design Education with Simulation” by Design Simulation Technologies and Mott Community College.

ACTIVITIES:

- Member, American Society for Engineering Education (ASEE)