

**Hung-da Wan**, Ph.D., Associate Professor

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**A. Education****Degrees:**

Ph.D. in Industrial and Systems Engineering ( <i>Manufacturing Systems Engineering Option</i> )	2006
Virginia Polytechnic Institute and State University (Virginia Tech), Blacksburg, VA	
M.S. in Industrial Engineering, National Taiwan University, Taipei, Taiwan	1996
B.S. in Mechanical Engineering, National Taiwan University, Taipei, Taiwan	1994

**B. Professional Experience****Academic Positions**

2017 – Present	<b>Interim Director</b> , Center for Advanced Manufacturing and Lean Systems (CAMLs), UTSA.
2017 – Present	<b>Graduate Advisor of Record</b> , Department of Mechanical Engineering, UTSA.
2013 – Present	<b>Associate Professor</b> , Department of Mechanical Engineering, UTSA.
2013 – 2016	<b>Assistant Department Chair</b> , Department of Mechanical Engineering, UTSA.
2011 – 2015	<b>Director</b> , Machine Shop of College of Engineering, UTSA.
2009 – Present	<b>Director</b> , Sustainable Manufacturing Systems Laboratory, UTSA.
2007 – 2013	<b>Assistant Professor</b> , Department of Mechanical Engineering, UTSA.
2007 – 2011	<b>Co-director</b> , Flexible Manufacturing and Lean Systems Laboratory, UTSA.
2006 – 2007	<b>Postdoctoral Research Fellow</b> , Flexible Manufacturing and Lean System Laboratory, Department of Mechanical Engineering, UTSA.
2002 – 2006	<b>Graduate Research Assistant</b> , Center for High Performance Manufacturing, Virginia Tech.

**Other Experiences**

2018 – 2019	<b>President Elect</b> , Lean Division, Institute of Industrial and Systems Engineers (IISE).
2017	<b>Conference Chair</b> , Engineering Lean and Six Sigma (ELSS) Conference, IISE, September 25-27, 2017, Orlando, FL.
2015 – 2016	<b>Secretary</b> , Lean Division, Institute of Industrial Engineers (IIE).
2014 – 2015	<b>Director of Conferences</b> , Lean Division, Institute of Industrial Engineers (IIE).
2001 – 2002	<b>Manager</b> , Second Division, Mady Enterprise Co., Ltd., Taiwan.
1998 – 2001	<b>Specialist</b> , Product Development and Marketing, Mady Enterprise Co., Ltd., Taiwan.
1996 – 1998	<b>Second Lieutenant and Platoon Leader</b> , Infantry, Army, Taiwan.
1992	<b>Engineering Intern</b> , R&D and Quality Control, Fairly Bike Manufacturing Co., Ltd., Taiwan.

### **Honors and Awards** (Note: Underlined names are students supervised by Hung-da Wan)

- April 2018: **Outstanding Section Teaching Award**, American Society of Engineering Education – Gulf Southwest (ASEE-GSW) Section.
- Sep. 2017: **Second Runner-up of Distinguished Paper Award**, “A Ripple Theory for Lean Culture Initiation and Development” by Romero Acosta and **Wan**, IISE Engineering Lean & Six Sigma (ELSS) Conference, Orlando, FL.
- May 2016: **IISE Lean Division Teaching Award**, Institute of Industrial and Systems Engineering (IISE).
- March 2015: **Faculty Paper Award 2nd Place**, “A Manufacturing Processes Curriculum Embedded with Continuous Improvement” by Sun and **Wan**, American Society for Engineering Education (ASEE) Gulf-Southwest (GSW) Annual Conference, San Antonio, TX.
- May 2013: **Best Paper Award of Lean Systems Track**, “A Case Study of Lean Implementation at Sandia National Laboratories” by De Luna, **Wan**, Lopez, and Chen, 2013 Industrial and Systems Engineering Research Conference (ISERC), San Juan, Puerto Rico.
- Sep. 2003: Receiver of “2003 – 2004 **Dover Endowed ISE Fellowship Award**,” Grado Department of Industrial and Systems Engineering, Virginia Tech.
- Mar. 2001: As the team lead, the “Police Bike” designed by the R&D team of Mady Enterprise received the “**Best Design Award**” from China External Trade Development Council in Taiwan. The bike was on display in the World Trade Center in Taipei.
- Jul. 1994: A design “Multi-functional Bicycle Carrier” awarded **Third Place in Engineering Technology Contest**, National Taiwan University Student Chapter of the Chinese Institute of Engineers.
- Apr. 1994: A design “Multi-functional Bicycle Carrier” awarded **Second Place in Student Technology Contest**, Department of Mechanical Engineering, National Taiwan University.

## **C. Publications**

(Note: Underlined names are students supervised or co-supervised by Dr. Wan.)

### **Book Chapters**

1. Tripathi, M. and **Wan, H.** (2010) “Taguchi Integrated Real-time Optimization (TIRO) for Product Platform Planning: A Case of Mountain Bike Design,” *Systems Engineering: Tools and Methods for Engineers*, (eds. A.K. Kamrani and M. Azimi, ISBN: 9781439809266), Taylor & Francis – CRC Press, pp.235-264.
2. **Wan, H.**, Shukla, S.K. and Chen, F.F. (2009) “Pulling the Value Streams of a Virtual Enterprise with Web-based Kanban System,” *Collaborative Design and Planning for Digital Manufacturing* (Eds: L. Wang and A. Y. C. Nee, ISBN: 978-1-84882-286-3), Springer, pp.317-340.
3. Rivera, L., **Wan, H.**, Chen, F.F., and Lee, W. (2007) “Beyond Partnerships: The Power of Lean Supply Chains,” *Trends in Supply Chain Design and Management: Technologies and Methodologies* (Eds: H. Jung, et al., ISBN: 1846286069), Springer, Surrey, UK, pp.241-268.

### **Refereed Journal Papers**

1. Schmidt, S., Shay, L., Saygin, C., **Wan, H.**, Schulz, K., Clark, R., and Shireman, P.K. (2018) “Improving pilot project application and review processes: A novel application of lean six sigma in translational science,” *Journal of Clinical and Translational Science*, 2, pp.135-138.
2. Goros, M., Schmidt, S., Parsons, H.M., Saygin, C., **Wan, H.**, Shireman, P.K., and Gelfond, J.A.L. (2017) “Improving Initiation and Tracking of Research Projects at an Academic Health Center: A Case Study,” *Evaluation & the Health Professions*, 40(3), 372-379.
3. Sims, T. and **Wan, H.** (2017) “Constraint Identification Techniques for Lean Manufacturing

- Systems,” *Robotics and Computer-Integrated Manufacturing*, 43, pp.50-58.
4. Sahasrabudhe, A.M., **Wan, H.**, and Rivera, L. (2014) “Prioritization of Lean Tools Using Gap Analysis and Analytic Network Process (ANP),” *Sistemas & Telemática*, 12(28), pp.9-25.
  5. **Wan, H.** and Tamma, S. (2013) “Impact of Lean Tools Selection: A Simulation Study of Two Assessment Approaches,” *International Journal of Rapid Manufacturing*, 3(4), pp.209-227.
  6. **Wan, H.** and Gonnuru, V.K. (2013) “Disassembly Planning and Sequencing for End-of-Life Products with RFID Enriched Information,” *Robotics and Computer-Integrated Manufacturing*, 29(3), pp.112-118.
  7. Lin, C., Chen, F.F., **Wan, H.**, Chen, Y., and Kuriger, G., (2013) “Continuous Improvement of Knowledge Management Systems Using Six Sigma Methodology,” *Robotics and Computer-Integrated Manufacturing*, 29(3), pp.95-103.
  8. Yuen, T., Saygin, C., Shipley, H., **Wan, H.**, and Akopian, D. (2012) “Factors that Influence Students to Major in Engineering,” *International Journal of Engineering Education*, 28(4), pp.932-938.
  9. Gogula, V., **Wan, H.**, and Kuriger, G. (2011) “Impact of Lean Tools on Energy Consumption,” *Sistemas & Telemática*, 9(19), pp.33-53, <http://hdl.handle.net/10906/65378>.
  10. Mirehei, S., Kuriger, G., **Wan, H.**, and Chen, F.F. (2011) “Enhancing Lean Training for the Office Environment through Simulation and Gaming,” *International Journal of Learning and Intellectual Capital*, 8(2), pp.206-221.
  11. Wu, S., **Wan, H.**, Shukla, S.K. and Li, B. (2011) “Chaos-based Improved Immune Algorithm (CBIIA) for Resource-constrained Project Scheduling Problems,” *Expert Systems with Applications*, 38(4), pp.3387-3395.
  12. Liu, S., **Wan, H.**, and Guo, K. (2010) “Employing Substitution Connectives of Error-elimination Logic in Decision Making of Social System,” *AMSE - Advances in Modeling A: General Mathematics*, 47(1), pp.33-41.
  13. Kuriger, G., **Wan, H.**, Mirehei, S., Tamma, S., and Chen, F.F. (2010) “A Web-based Lean Simulation Game for Office Operations: Training the other side of a lean enterprise,” *Simulation and Gaming: An International Journal of Theory, Practice and Research*, 41(4), pp.487-510.
  14. Shukla, S.K. and **Wan, H.** (2010) “A Leagile Inventory–Location Model: Formulation and its Optimization,” *International Journal of Operational Research*, 8(2), pp.150-173.
  15. Shukla, S.K., Tiwari, M.K., **Wan, H.**, and Shankar, R. (2010) “Optimization of the Supply Chain Network: Simulation, Taguchi, and Psychoclonal Algorithm Embedded approach,” *Computers and Industrial Engineering*, 58(1), pp.29-39.
  16. **Wan, H.** and Chen, F.F. (2009) “Decision Support for Lean Practitioners: A Web-Based Adaptive Assessment Approach,” *Computers in Industry: special issue on Advancing Lean Manufacturing: the role of IT*, 60(4), pp.277-283.
  17. **Wan, H.**, Tamma, S., Mirehei, S.M., and Kuriger, G. (2008) “Simulation Game for Lean Services: A Web-based Program Using PHP+MySQL,” *Journal of Interactive Instruction Development*, 20(3), pp.10-16.
  18. **Wan, H.** and Chen, F.F. (2008) “A Leanness Measure of Manufacturing Systems for Quantifying Impacts of Lean Initiatives,” *International Journal of Production Research*, 46(23), pp.6567-6584.
  19. **Wan, H.** and Chen, F.F. (2008) “A Web-Based Kanban System for Job Dispatching, Tracking, and Performance Monitoring,” *International Journal of Advanced Manufacturing Technology*, 38(10), pp.995-1005.
  20. **Wan, H.**, Chen, F.F., and Saygin, C. (2008) “Simulation and Training for Lean Implementation Using Web-Based Technology,” *International Journal of Services Operations and Informatics*, 3(1), pp.1-14.

21. **Wan, H.** and Chen, F.F. (2004) “A Framework for Performance-driven Web-based Manufacturing,” *Journal of Chinese Institute of Industrial Engineers*, 21(6), pp.527-534.

### **Peer-reviewed Conference Papers**

1. Bracho Avila, A., Saygin, C., **Wan, H.**, Lee, Y., Zarreh, A., (2018) “A Simulation-Based Platform for Assessing the Impact of Cyber-Threats on Smart Manufacturing Systems,” *Procedia Manufacturing Special Issue on 46<sup>th</sup> SME North American Manufacturing Research Conference (NAMRC)*, June 18-22, College Station, TX, (26) 1116-1127.
2. Zarreh, A., Saygin, C., **Wan, H.**, Lee, Y., Bracho Avila, A., (2018) “A Game Theory Based Cybersecurity Assessment Model for Advanced Manufacturing Systems,” *Procedia Manufacturing Special Issue on 46<sup>th</sup> SME North American Manufacturing Research Conference (NAMRC)*, June 18-22, College Station, TX, (26) 1255-1264.
3. Zarreh, A., Saygin, C., **Wan, H.**, Lee, Y., Bracho Avila, A., (2018) “Cybersecurity Analysis of Smart Manufacturing System Using Game Theory Approach and Quantal Response Equilibrium,” *Procedia Manufacturing Special Issue on 28<sup>th</sup> International Conference on Flexible Automation and Intelligent Manufacturing (FAIM)*, June 10-14, Columbus, OH, (17) 1000-1008.
4. Han, H., **Wan, H.**, and Wang, X. (2018) “Development of a Personalized Quantitative Faculty Annual Evaluation System” *ASEE-Gulf Southwest (GSW) Section Annual Conference*, April 4-6, Austin, TX.
5. **Wan, H.** (2018) “Designing Effective Simulation Games for Active Learning in Systems Engineering” *ASEE-Gulf Southwest (GSW) Section Annual Conference*, April 4-6, Austin, TX.
6. Romero Acosta, C. and **Wan, H.** (2017) “A Ripple Theory for Lean Culture Initiation and Development,” *IISE Engineering Lean and Six Sigma Conference*, September 25-27, Orlando, FL (received 2<sup>nd</sup> Runner-Up Award in Best Paper Competition).
7. Lopez Hernandez, V. and **Wan, H.** (2017) “Two Cases of Lean Six Sigma Implementation in University Services,” *IISE Engineering Lean and Six Sigma Conference*, September 25-27, Orlando, FL.
8. Nagi, M.M., Chen, F.F., and **Wan, H.** (2017) “Throughput Rate Improvement in A Multiproduct Assembly Line Using Lean and Simulation Modeling and Analysis,” *International Conference on Flexible Automation and Intelligent Manufacturing (FAIM)*, June 27-30, Modena, Italy; *Procedia Manufacturing* 11, pp.593-601.
9. Romero Acosta, C.A., Lopez Hernandez, V.D., and **Wan, H.** (2016) “Improving Services of University Center through 5S and Visual Factory,” *Engineering Lean and Six Sigma Conference*, September 14-16, San Antonio, TX.
10. Gupta N. and **Wan, H.** (2016) “The Design Aspects of Role-playing Lean Simulation Games,” *2016 Industrial and Systems Engineering Research Conference*, May 21-24, Anaheim, CA.
11. Flores, E.E., Chen, F.F., and **Wan, H.** (2016) “Application of Lean Methodologies in Public Service Organizations,” *2016 Industrial and Systems Engineering Research Conference*, May 21-24, Anaheim, CA.
12. Vazquez Doria, J.A., **Wan, H.**, Chen, F.F., and Castillo-Villa, K. (2015) “Improving Order Processing Workflow through Value Stream Mapping: A Case,” *2015 Industrial and Systems Engineering Research Conference*, May 30-June2, Nashville, TN.
13. Mancha, J., Puente, M., Kuriger, G., Chen, F.F., and **Wan, H.** (2015) “Work Measurement and Standard Work Instruction Improvement: A Molding Plant,” *2015 Industrial and Systems Engineering Research Conference*, May 30-June2, Nashville, TN.
14. **Wan, H.** (2015) “3D Printing for Engineering Students – Understanding and Misunderstanding,”

ASEE Gulf-Southwest Annual Conference, March 25-27, San Antonio, TX.

15. Sun, A.Y.T. and **Wan, H.** (2015) "A Manufacturing Processes Curriculum Embedded with Continuous Improvement," ASEE Gulf-Southwest Annual Conference, March 25-27, San Antonio, TX.
16. Chukukere, A. C., Castillo-Villar, K.K., and **Wan, H.** (2014) "Improving Operations through Dynamic Value Stream Mapping and Discrete-Event Simulation," Industrial and Systems Engineering Research Conference (ISERC), May 31-June 3, Montreal, Canada.
17. Sims, Trumone and **Wan, H.** (2014) "Analysis of Constraint Location in a Lean Facility," Industrial and Systems Engineering Research Conference (ISERC), May 31-June 3, Montreal, Canada.
18. Sims, T. and **Wan, H.** (2014) "Applying Theory of Constraints to Moving Assembly Lines," *The 24th Int'l Conf. on Flexible Automation and Intelligent Manufacturing (FAIM)*, May 20-23, San Antonio, TX, pp.817-824.
19. Stipe, A. and **Wan, H.** (2014) "3D Printing with Reusable Voxels: A Faster and Greener Future," *The 24th Int'l Conf. on Flexible Automation and Intelligent Manufacturing (FAIM)*, May 20-23, San Antonio, TX, pp.3-12.
20. Huang, Y., **Wan, H.**, Kuriger, K., and Chen, F.F. (2013) "Simulation Studies of Hybrid Pull Systems of Kanban and CONWIP in an Assembly Line," *The 23rd Int'l Conf. on Flexible Automation and Intelligent Manufacturing (FAIM)*, June 26-28, Porto, Portugal, 1553-1563.
21. De Luna, R., **Wan, H.**, Lopez, M.R., and Chen, F.F. (2013) "A Case Study of Lean Implementation at Sandia National Laboratories," Industrial and Systems Engineering Research Conference (ISERC), May 18-22, San Juan, Puerto Rico, pp. 2148-2157 (received Best Paper Award in Lean Systems Track).
22. Gutta, R., **Wan, H.**, and Kuriger, G. (2013) "Packaging Materials Selection Tool Considering Environmental Sustainability," Industrial and Systems Engineering Research Conference (ISERC), May 18-22, San Juan, Puerto Rico, pp.3706-3715.
23. Wang, M.T., **Wan, H.**, Chen, H.Y., Wang, S.A., Huang, S.A., Cheng, H.L. (2012) "Six Sigma and Lean Six Sigma: A Literature Review and Experience in Taiwan," Conference of International Foundation for Production Research-Asia Pacific Region, Dec. 2-5, Phuket, Thailand.
24. Chen, H.Y., **Wan, H.**, Wang, M.T., Wang, S.A., Huang, S.A., Cheng, H.L. (2012) "LSS in Taiwan – A Review and Case Study," IIE Engineering Lean and Six Sigma Conference, October 2-3, Louisville, KY.
25. **Wan, H.**, Gabriel, B., Kuriger, K., and Chen, F.F. (2012) "Reducing Cost of Poor Quality of Assemblies through Flexible Rework," *Proceedings of the 22nd Int'l Conf. on Flexible Automation and Intelligent Manufacturing*, June 10-13, Helsinki, Finland, pp.373-380.
26. Shankar, K., Koho, M., **Wan, H.**, Torvinen, S., and Chen, F.F. (2012) "Manufacturing Sustainability: A Comparison of Indian and Finnish Manufacturers' Vision and Current State," *Proceedings of the 22nd Int'l Conf. on Flexible Automation and Intelligent Manufacturing*, June 10-13, Helsinki, Finland, pp.491-498.
27. Saygin, C., Yuen, T., Shipley, H., **Wan, H.**, and Akopian, D. (2012) "Interactive Technology Experience Center for K-12 STEM Education: From Summer Camps to Robotics Competitions," *2012 ASEE Annual Conference & Exposition*, June 10-13, San Antonio, TX.
28. **Wan, H.**, Liao, Y., and Kuriger, G. (2012) "Redesigning a Lean Simulation Game for More Flexibility and Higher Efficiency," *2012 ASEE Annual Conference & Exposition*, June 10-13, San Antonio, TX.
29. **Wan, H.** and Syed, F.A. (2012) "Preparing to Use Rapid Prototyping: Lessons Learned from Design and Manufacturing Projects," *2012 ASEE Annual Conference & Exposition*, June 10-13, San Antonio, TX.

30. Lin, C., **Wan, H.**, Chen, F.F., Chen, Y. (2011) "Evaluating and Improving Knowledge Retrieval Systems by Six Sigma Tools," *Proceedings of the 21st Int'l Conf. on Flexible Automation and Intelligent Manufacturing*, June 26-29, Taichung, Taiwan, pp.765-771.
31. Gonnuru, V.K. and **Wan, H.** (2011) "RFID Enhanced Disassembly Planning and Sequencing for End-of-Life Products," *Proceedings of the 21st Int'l Conf. on Flexible Automation and Intelligent Manufacturing*, June 26-29, Taichung, Taiwan, pp.729-736.
32. **Wan, H.**, Tadikonda, B.M., and Kuriger, G. (2011) "Lean Training via the Internet: Two Flash-based Simulation Games," *2011 Annual Industrial Engineering Research Conference*, May 21-25, Reno, NV.
33. Tripathi, M., **Wan, H.**, and Tsai, P.F. (2010) "A Real Time Optimization Approach for Product Platform Planning Problem," *Proceedings of the 20th Int'l Conf. on Flexible Automation and Intelligent Manufacturing*, June 12-14, Oakland, CA, pp.860-867.
34. Tripathi, M., **Wan, H.**, and Chen, F.F. (2010) "An Adaptive Stochastic Sectioning Algorithm for Optimization of Series Parallel System Reliability: A Case Study of Gas Turbine System," *Proceedings of the 20th Int'l Conf. on Flexible Automation and Intelligent Manufacturing*, June 12-14, Oakland, CA, pp.876-883.
35. Tripathi, M., Shukla, S.K., Kuriger, G., **Wan, H.**, Chen, F.F., and Riehl, B.D. (2010) "Forecasting Decision Support System: A Self-Guided Ant based Genetically-Optimized-Neural-Network Approach," *2010 Annual Industrial Engineering Research Conference*, June 5-9, Cancun, Mexico.
36. Tripathi, K., Kuriger, G., and **Wan, H.** (2009) "Simulation Optimization of Vehicle Routing Problem with Stochastic Demands by Using Neighborhood Search Embedded Adaptive Ant Algorithm," *Winter Simulation Conference 2009*, Dec.13-16, Austin, TX, pp.2476-2487.
37. **Wan, H.**, Cherukuri, V.T., Tamma, S., and Tiyyagura, K.K. (2009) "A Web-based Interactive Roadmap Facilitating Self-learning from CAD Modeling to Rapid Prototyping," *2009 ASEE Annual Conference*, June 14-17, Austin, TX (Paper No. AC 2009-1492).
38. Tamma, S., **Wan, H.**, and Kuriger, G. (2009) "Adaptive Lean Assessment and Training Using Web-based Interactive Roadmap," *2009 Annual Industrial Engineering Research Conference*, May 30-June 3, Miami, FL, pp.1167-1172.
39. Shukla, S.K., Tripathi, M., Kuriger, G., **Wan, H.**, and Chen, F.F. (2009) "Clonal C-Fuzzy Decision Tree (C2FDT) for Workforce Deployment," *2009 Annual Industrial Engineering Research Conference*, May 30-June 3, Miami, FL, pp.2128-2133.
40. Shukla, S.K. and **Wan, H.** (2008) "Improved Immune Algorithm for Resource-Constrained Project Scheduling Problems," *Proceedings of the 3rd INFORMS Workshop on Data Mining and Health Informatics (DM-HI 2008)* J. Li, D. Aleman, R. Sikora, eds, Oct.11, Washington D.C..
41. **Wan, H.**, Tamma, S., Mirehei, S.M., and G. Kuriger (2008) "A Web-based Lean Simulation Game Using PHP+MySQL," *Proceedings of the Washington Interactive Technologies Conference*, August 20-22, Arlington, Virginia.
42. **Wan, H.** and Chen, F.F. (2007) "Enabling Agile Supply Chain with Web-based Kanban System," *Proceedings of the 8<sup>th</sup> APIEMS & CIIE Conference*, Dec.9-13, Kaohsiung, Taiwan.
43. **Wan, H.**, Chen, F.F., and Saygin, C. (2007) "Web-based Lean Simulation and Training," *Proceedings of the 17th Int'l Conf. on Flexible Automation and Intelligent Manufacturing*, June 18-20, Philadelphia, PA, pp.1020-1027.
44. **Wan, H.**, Rivera, L., and Chen, F.F. (2007) "Leanness Score of Value Stream Maps," *Proceedings of the 2007 Annual Industrial Engineering Research Conference*, May 19-23, Nashville, TN, pp.1515-1520.
45. **Wan, H.**, and Chen, F.F. (2006) "A Web-based Tool for Implementation of Lean Manufacturing," *Proceedings of the 16th Int'l Conf. on Flexible Automation and Intelligent Manufacturing*, June 26-

28, Limerick, Ireland, pp.1085-1092.

46. **Wan, H.**, and Chen, F.F. (2006) “An Application of Slacks-Based Measure on Quantifying Leanness,” *Proceedings of the 2006 Industrial Engineering Research Conference*, May 20-24, Orlando, FL.
47. **Wan, H.**, and Chen, F.F. (2005) “Quantifying Leanness and Agility of Manufacturing Systems,” *Proceedings of the 2005 Industrial Engineering Research Conference*, May 14-18, Atlanta, GA.
48. Huang, Y., Tsai, C., **Wan, H.**, Hsu, H., Chen, H., and Wang, T. (1995) “Construction and TQM Application on Center-Satellite System of Business Logistics,” *Proceedings of National Conference of Chinese Institute of Industrial Engineers*, Taoyuan, Taiwan, p.633-640 (in Chinese).
49. Lu, Y., Wang, M., and **Wan, H.** (1995) “Automated Feature Recognition: An Embellished Backward Growing Approach,” *Proceedings of National Conference of Chinese Institute of Industrial Engineers*, Taoyuan, Taiwan, p.415-422 (in English).
50. **Wan, H.**, Wang, M., and Lu, Y. (1995) “Integration of Rapid Prototyping and Reverse Engineering,” *Proceedings of National Conference of Chinese Institute of Industrial Engineers*, Taoyuan, Taiwan, pp.423-430 (in Chinese).

## **D. Scholarly Presentations**

### **Invited Talks and Seminars**

1. Wan, H. (2018) “Process Improvement for Small Business – the Wheels of Problem Solving,” Workshop co-hosted by Small Business Development Center (SBDC) and Minority Business Development Agency (MBDA) at San Antonio, December 4, 2018.
2. Wan, H. (2018) “A Lean RACE Model for Continuous Improvement in Four Possible Directions,” Continuous Improvement Professionals (CIP) Seminar, UTSA, October 19, San Antonio, TX.
3. Wan, H. (2018) “Process Improvement for Small Business – the Starter Tool Kit,” Workshop co-hosted by Small Business Development Center (SBDC) and Minority Business Development Agency (MBDA) at San Antonio, September 5, 2018.
4. Wan, H. (2018) “Lean for Small Business - Driving Your Improvement Efforts through VSM,” Minority Business Development Agency (MBDA) Webinar, hosted by Advanced Manufacturing Center (AMC) at San Antonio, April 27, 2018.
5. Wan, H. (2017) “Introduction to Lean Manufacturing – Lean in Plain English,” Minority Business Development Agency (MBDA) Webinar, hosted by Advanced Manufacturing Center (AMC) at San Antonio, August 24, 2017.
6. Anderson, H., Berlanga, G., Husby, B., and Wan, H., (2016) “Lean Daily Management,” Workshop of Engineering Lean and Six Sigma Conference, September 14, San Antonio, TX.
7. Wan, H. (2016) “Teach Lean while Having Fun: The Use of Lean Simulation Games” Continuous Improvement Professionals (CIP) Seminar, UTSA, March 11, San Antonio, TX ([http://camls.utsa.edu/Event\\_files/CIP-Flyer-2016-03-11-Wan.pdf](http://camls.utsa.edu/Event_files/CIP-Flyer-2016-03-11-Wan.pdf)).
8. Wan, H. (2015) “Involving 3D Printing in Engineering Curriculum,” San Antonio Nano Tech Forum (SANTF) Networking Lunch Series, May 20, 2015, Southwest Research Institute, San Antonio, TX.
9. Wan, H. (2014) “A Few Things You Should Know About 3D Printing,” an invited talk to the Plant Operations Special Interest Group (SIG) of San Antonio Manufacturers Association (SAMA), June 11, 2014, San Antonio, TX.
10. Wan, H. (2013) “3D Printing: A new era has started, hasn't it?” Continuous Improvement Professionals (CIP) Seminar, UTSA, Oct. 11, San Antonio, TX ([http://camls.utsa.edu/Event\\_files/CIP-2013-1011-3DPrinting-Wan.pdf](http://camls.utsa.edu/Event_files/CIP-2013-1011-3DPrinting-Wan.pdf)).
11. Wan, H. (2012) “Lean Implementation Tactics Learned from Two Contrasting Manufacturing Cases,”

Industrial and Systems Engineering Research Conference (ISERC), May 19-23, Orlando, FL (invited presentation in Lean Research Track).

12. Wan, H. (2012) "3D Printing – A New Way to Build Things," an invited talk to the *Alamo Inventors*, a Special Interest Group (SIG) of Technology Connexus Association ([www.alamoinventors.org](http://www.alamoinventors.org)), Feb.8, San Antonio, TX.
13. Wan, H. (2008) "Cyber-Enabled Lean Manufacturing," *CAMLS Seminar Series*, March 5, 2008, UTSA ([http://camls.utsa.edu/Event\\_files/CAMLS\\_Seminar\\_Wan20080305.pdf](http://camls.utsa.edu/Event_files/CAMLS_Seminar_Wan20080305.pdf)).

### **Conference Presentations (with Extended Abstract)**

1. Schmidt, S., Shay, L.A., **Wan, H.**, Saygin, C., Roache, J., Schmelz, J., and Shireman, P.K. (2019) "Streamlining Institutional Approvals for Clinical Trials: A Novel Application OF Lean Six Sigma in Academic Medicine," International Healthcare Systems Process Improvement Conference (HSPI), February 20-22, San Antonio, TX (abstract and presentation).
2. **Wan, H.** (2018) "A Lean RACE Model for Different Directions of Continuous Improvement," Engineering Lean and Six Sigma Conference, September 24-26, Atlanta, GA (abstract and presentation).
3. Schmidt, S., Shay, L.A., Saygin, C., **Wan, H.**, Shireman, P.K., Balli, V.S., Clark, R.A. (2017) "Improving Pilot Project Application and Review Process: A Novel Application of Lean Six Sigma in Translational Science," Ignite Presentation at the Annual Meeting of the American Evaluation Association, Evaluation 2017, November 6-11, Washington, DC.
4. Saygin, C., **Wan, H.**, Goros, M., Schmidt, S., Parsons, H.M., Shireman, P.K., and Gelfond, J.A.L. (2016) "Improving Biostatistics Research Services of an Academic Health Center," Engineering Lean and Six Sigma Conference, September 14-16, San Antonio, TX (abstract and presentation).
5. **Wan, H.** and Gupta, N., (2015) "Improving a Lean Office Simulation Game for Teaching Continuous Improvement," IIE Engineering Lean & Six Sigma (ELSS) Conference, September 30-October 2, Atlanta, GA (abstract and presentation).
6. **Wan, H.**, Saygin, C., Alaeddini, A., and Castillo-Villa, K. (2015) "The Lean Perspectives of Maintenance in High-speed Printing Industry," 2015 Industrial and Systems Engineering Research Conference, May 30-June2, Nashville, TN (abstract and presentation).
7. **Wan, H.** (2014) "Four Aspects of Continuous Improvement in a Value Stream," Industrial and Systems Engineering Research Conference (ISERC), May 31-June 3, Montreal, Canada (abstract and presentation).
8. Stipe, A., Santalov, V., Balandrano, F., and **Wan, H.** (2013) "An Alternative 3-D Printing Mechanism Using Pre-built Volumetric Elements," Industrial and Systems Engineering Research Conference (ISERC), May 18-22, San Juan, Puerto Rico (abstract and presentation).
9. Sanchez, A., Balandrano, F., and **Wan, H.** (2012) "Fused Deposition Modeling for Assembly: Issues of Geometric Inaccuracy," Industrial and Systems Engineering Research Conference (ISERC), May 19-23, Orlando, FL (abstract and presentation).
10. Lin C., Kuriger, G., **Wan, H.**, Chen, F.F., and Chen, Y. (2011) "Continuous Improvement of Knowledge Management Using Adaptive Control Chart," *IIE Engineering Lean and Six Sigma Conference*, Sep. 12-14, Atlanta, GA (abstract and presentation).
11. Gabriel, B., Kuriger, G., and **Wan, H.** (2011) "Benefits of Implementing Dynamic Matching and Flexible Rework," *2011 Annual Industrial Engineering Research Conference*, May 21-25, Reno, NV (abstract and presentation).
12. **Wan, H.** (2010) "Adjusted Granulation of Value Stream Maps for Identifying Waste," *2010 Annual Industrial Engineering Research Conference*, June 5-9, Cancun, Mexico (abstract and presentation).
13. Wu, S., Li, B., **Wan, H.**, Chen, F.F., and Yang, J. (2010) "Divide-and-conquer Strategy Based



Approach towards Solving Dynamic Job-shop Scheduling Problems,” *2010 Annual Industrial Engineering Research Conference*, June 5-9, Cancun, Mexico (abstract and presentation).

14. Mirehei, S.M., **Wan, H.**, and Chen, F.F. (2009) “Methodologies and Impact Areas of Simulation Games for Lean Education: A Survey,” *2009 ASEE Annual Conference*, June 14-17, Austin, TX (abstract No. AC 2009-204).
15. Tiyyagura, K.M. and **Wan, H.** (2009) “Web-based ERP: The Technology for Small and Medium Enterprises,” *2009 Annual Industrial Engineering Research Conference*, May 30-June 3, Miami, FL (abstract and presentation).
16. Cherukuri, V.T. and **Wan, H.** (2009) “Multiple Parts Arrangement for Rapid Prototyping Using Particle Swarm Optimization,” *2009 Annual Industrial Engineering Research Conference*, May 30-June 3, Miami, FL (abstract and presentation).
17. Creehan, K., Chen, F.F., Yao, L., **Wan, H.**, Brown, E., and O’Quinn, P. (2006) “Lean Manufacturing and Six-Sigma Integration,” *2006 Industrial Engineering Research Conference*, May 20-24, Orlando, FL (abstract).
18. Chen, F.F., Creehan, K., and **Wan, H.** (2004) “A Decision Support Tool for Lean Assessment and Implementation,” *4th Annual Lean Management Solutions Conference*, September 13-14, Los Angeles, CA (extended abstract and presentation).
19. Creehan, K.D., Taylor, R.E., Chen, F.F., Stephen, P., **Wan, H.**, Yao, L. (2004) “Lean Manufacturing and Six Sigma Integration,” *4th Annual Lean Management Solutions Conference*, September 13-14, Los Angeles, CA (extended abstract and presentation).
20. **Wan, H.** and Chen, F.F. (2004) "Reconfiguration of Manufacturing Systems Considering Leanness and Agility," *Annual Industrial Engineering Research Conference*, May 15-19, Houston, TX (extended abstract and presentation).

### Posters

1. Lopez Hernandez, V. and Wan, H. (2018) “Design for a Lean Start – Establishing a Foodbank at the University,” Engineering Lean and Six Sigma Conference, September 24-26, Atlanta, GA.
2. Schmidt, S., Shay, L.A., Saygin, C., **Wan, H.**, Shireman, P.K., Balli, V.S., Clark, R.A. (2018) “Improving Pilot Project Application and Review Processes: A novel application of Lean Six Sigma in translational science,” ACTS Translational Science 2018, April 19-21, Washington, D.C.
3. Romero Acosta, C. and **Wan, H.** (2017) “A Ripple Theory for Lean Culture Initiation and Development,” Poster Competition of the 2017 IISE Engineering Lean and Six Sigma Conference, September 25-27, Orlando, FL.
4. **Wan, H.** (2017) “Introduction to Mechanical Engineering,” STEM Summer Camp, UTSA, June 14 and 21, San Antonio, TX.
5. **Wan, H.** (2016) “Introduction to Mechanical Engineering,” STEM Summer Camp, UTSA, June 15 and 22, San Antonio, TX.
6. **Wan, H.** (2014) “Advanced Manufacturing at University of Texas at San Antonio,” Poster at NIST HBCU /MSI Symposium, Nov 2-3, Washington, D.C.
7. Sanchez, A. and **Wan, H.** (2011) “Functionality and Challenges of Fused Deposition Modeling (FDM): “A Popular Rapid Prototyping Technology,” Poster Competition at the MAES 37<sup>th</sup> Annual Symposium, Oct.5-8, Oakland, CA.
8. Sanchez, A. (2011) “Fused Deposition Modeling: Functionality and Challenges” (student research poster mentored by Dr. **H. Wan**), UT System LSAMP Annual Conference, Sep.15-17, Arlington, TX.
9. Edwards, D. (2009) “Using Simulation to Model and Diagnose a FMS” (student research poster mentored by Dr. **H. Wan**), UT System LSAMP Annual Conference, Sep.10-13, Austin, TX.

## **E. Research Grants and Sponsored Projects**

### **Projects Participated as Principal Investigator (PI)**

1. "Incorporating Lean-Six Sigma Methodologies into the Institute for Integration of Medicine and Science (IIMS) – Phase 3," **PI: H. Wan (50%)**, Co-PI: Y. Lee (50%), \$50,000, UTHSCSA-IIMS, 9/1/2018-8/31/2019.
2. "Process Excellence and Continuous Improvement at Harland Clarke," **PI: H. Wan**, Co-PI: F.F. Chen, C. Saygin, K. Castillo-Villar, A. Alaeddini (shared credit: 20% each), \$62,000, **Harland Clarke**, 8/1/2015 – 7/31/2017.
3. "Continuous Improvement and Sustainability at Harland Clarke," **PI: H. Wan**, Co-PI: F.F. Chen, C. Saygin, K. Castillo-Villar, A. Alaeddini, H. Rashed-Ali (shared credit: 17% each), \$33,000, **Harland Clarke**, 7/1/2013 – 6/30/2015.
4. "Rapid 3D Printing of Large Objects through Geometrically Adjusted Building Blocks," **PI: H. Wan (100%)**, \$22,000, **UTSA Tenure-Track Research Award Competition (TRAC)**, 9/1/2012-8/31/2013.
5. "Recycling Plant Redesign and Modernization: Monterrey Iron and Metal," **PI: H. Wan (50%)**, Co-PI: G. Kuriger (50%), \$5,000, **Monterrey Iron and Metal**, 02/01/2012 – 07/31/2012.
6. "Lean Office Implementation Wizard," **PI: H. Wan (100%)**, \$15,000, CAMLS Center-Designated Project, Center for Advanced Manufacturing and Lean Systems (**CAMLS**) at UTSA, 01/01/2010 – 12/31/2010.
7. "An Intelligent Decision Support System for Workforce Forecast," **PI: H. Wan (80%)**, Co-PI: F.F. Chen (20%), \$199,514, **Air Force Research Laboratory (AFRL)** BAA# 08-02-RH, Contract No. FA8650-08-C-6873, 08/31/2008-08/30/2010.
8. "Web-based Lean Manufacturing Simulation and Training Program," **PI: H. Wan**, \$5,000, **UTSA FY07-08 Faculty Research Award Program**, 1/1/2008 – 12/31/2008.

### **Projects Participated as Co-PI**

1. "Support of Process Improvement Program in Air Force 149th Mission Support Group," PI: F.F. Chen (50%), Co-PI: **H. Wan (50%)**, \$22,000, US Air Force, 10/1/2017-9/30/2019.
2. "Incorporating Lean-Six Sigma Methodologies into the Institute for Integration of Medicine and Science (IIMS) – Phase 2," PI: C. Saygin (50%), Co-PI: H. Wan (50%), \$50,000, UTHSCSA-IIMS, 9/1/2017-8/31/2018.
3. "Alamo Manufacturing Partnership," PI: C. Saygin (40%); **Co-PI: R. Velasquez (40%)**, F. Chen (10%); **H. Wan (10%)**, \$101,000, US Dept of Labor, Economic Development Agency, 9/1/2016 – 8/31/2018.
4. "Incorporating Lean-Six Sigma Methodologies into the Institute for Integration of Medicine and Science (IIMS)," PI: C. Saygin (50%), **Co-PI: H. Wan (50%)**, \$50,000, UTHSCSA-IIMS, 7/1/2016-6/30/2017.
5. "Hybrid 3-D Digital Deposition Platform for Bottom-Up Fabrication of Multicomponent-Multiferroic Composites (H3D Platform)," PI: R. Guo (40%), **Co-PI: A. Bhalla (15%)**, H. **Wan (15%)**, Y. Joo (10%), S. Binzaid (10%), A. Ramasubramanian (10%), \$557,100, DOD-Defense University Research Instrumentation Program (DURIP), 2016-9/13/2018.
6. "Education and Mentoring Program for Lean Manufacturing and Lean Enterprise Implementation," PI: F.F. Chen (50%), **Co-PI: H. Wan (50%)**, \$62,000, GoodHeart Specialty Foods Co., 1/15/2016-1/14/2018.
7. "Predictive Maintenance - Phase 2: A Roadmap for Intelligent Maintenance," PI: C. Saygin, **Co-PI: A. Alaeddini, K.K. Castillo Villar, H. Wan** (shared credit 25% each), \$90,000, Harland Clarke,

9/1/2015 – 8/31/2016.

8. “Incorporating Lean-Six Sigma Methodologies into the Institute for Integration of Medicine and Science (IIMS),” PI: C. Saygin (50%), **Co-PI: H. Wan** (50%), \$100,000, UTHSCSA-IIMS, 7/1/2014-6/30/2016.
9. “Governor’s Summer Merit Robotics Camp,” PI: H. Shipley, **Co-PI: H. Wan**, \$100,000, Texas Workforce Commission, 4/1/2014-9/30/2014.
10. "Predictive Maintenance - Phase 1: A Roadmap for Intelligent Maintenance", PI: C. Saygin (20%), **Co-PI: F.F. Chen** (20%), A. Alaeddini (20%), K.K. Castillo Villar (20%), **H. Wan** (20%), \$108,784, Harland Clarke, 3/1/2013 – 8/31/2013.
11. “Continuous Improvement Project at **Reyes Automotive Group**,” PI: C. Saygin, **Co-PI: G. Kuriger, H. Wan**, \$30,000, CAMLS Company-Designated Project, Center for Advanced Manufacturing and Lean Systems (CAMLS) at UTSA, 3/15/2012 – 3/14/2014.
12. “Lean R&D Initiatives at Sandia National Laboratories’ Z Pulsed Power Facility,” PI: F.F. Chen, **Co-PI: H. Wan**, G. Kuriger, \$190,000, **Sandia National Laboratories**, 10/01/2011 – 9/30/2014.
13. “Wastewater Improvements and Lean Transformation: **The Nugget Company, Inc.**,” PI: H. Shipley, **Co-PI: H. Wan**, \$56,000, CAMLS Company-Designated Project, Center for Advanced Manufacturing and Lean Systems (CAMLS) at UTSA, 07/01/2011 – 06/30/2013.
14. “Lean Methodology for Green-House Gas (GHG) Emissions Inventory,” PI: G. Kuriger, **Co-PI: H. Rashed-Ali, H. Wan**, \$15,000, CAMLS Center-Designated Project, Center for Advanced Manufacturing and Lean Systems (CAMLS) at UTSA, 01/01/2011 – 12/31/2011.
15. “Lean Transformation at the **Chism Company**: Process Improvement, Visualization, and Automation,” PI: F.F. Chen, **Co-PI: B. Nowak, C. Saygin, and H. Wan**, \$100,000, CAMLS Company-Designated Project, Center for Advanced Manufacturing and Lean Systems (CAMLS) at UTSA, 01/15/2008 – 01/15/2010.

## F. Teaching

**Organized Courses and Evaluation Results** (Note: 5.00 is full score of UTSA’s evaluation.)

Term	Course Number	Course Title	Enrollment U: Undergrad G: Graduate	Course Evaluation (U, G)	Instructor Evaluation (U, G)
Spr 2019	ME 5603	Advanced Manufacturing Systems Eng	19 G		
Fall 2018	ME 5563	Computer Integrated Manufacturing	19 G	4.47	4.74
Fall 2018	ME 7991	Research Seminar**	9 G	4.86	4.71
Spr 2018	EGR 2513	Dynamics	75 U	4.22	4.39
Spr 2018	ME 5603	Advanced Manufacturing Systems Eng	25 G	4.61	4.78
Fall 2017	EGR 2513	Dynamics	77 U	3.67	3.87
Spr 2017	ME 5603	Advanced Manufacturing Systems Eng	19 G	4.72	4.89
Spr 2017	ME 5583	Adv. Enterprise Process Eng	20 G	4.80	4.80
Fall 2016	EGR 2213	Statics and Dynamics	60 U	4.35	4.44
Fall 2016	ME 4583/5583	Enterprise Process Eng	33 U, 7G	4.46	4.54
Spr 2016	ME 5603	Advanced Manufacturing Systems Eng	7 G	4.86	5.00
Spr 2016	EGR 2213	Statics and Dynamics**	39 G	4.00	4.08
Fall 2015	ME 4953/5503	Lean Manufacturing and Lean Enterp**	8 U, 28 G	4.73	4.79
Spr 2015	ME 5603	Advanced Manufacturing Systems Eng	18 G	4.86	4.60
Fall 2014	ME 4563/5563	Computer Integrated Manufacturing	11 U, 14 G	5.0, 5.0	4.9, 5.0

Term	Course Number	Course Title	Enrollment U: Undergrad G: Graduate	Course Evaluation (U, G)	Instructor Evaluation (U, G)
Spr 2014	ME 5603	Advanced Manufacturing Systems Eng	18 G	4.8	4.7
Fall 2013	ME 4583/5583	Enterprise Process Eng	15 U, 19 G	4.7	4.7
Spr 2013	ME 4953/5603	Advanced Manufacturing Systems Eng	8 U, 13 G	4.8	4.8
Fall 2012	ME 4583/5583	Enterprise Process Eng	9 U, 7 G	4.6	4.6
Fall 2012	ME 4563/5563	Computer Integrated Manufacturing	9 U, 6 G	4.7	4.7
Spr 2012	ME 5603	Advanced Manufacturing Systems Eng	8 G	4.0	3.8
Fall 2011	ME 4583/5013	Enterprise Process Eng	13 U, 5 G	4.3, 4.3	4.5, 4.3
Fall 2011	ME 4563/5563	Computer Integrated Manufacturing	3 U, 3 G	5.0, 5.0	5.0, 5.0
Spr 2011	ME 5603	Advanced Manufacturing Systems Eng	13 G	4.6	4.6
Fall 2010	ME 4583/5013	Enterprise Process Eng	9 U, 10 G	4.0, 4.8	3.8, 4.5
Fall 2010	ME 4563/5563	Computer Integrated Manufacturing	5 U, 8 G	4.0, 5.0	4.3, 5.0
Spr 2010	EGR 2513	Dynamics	53 U	3.8	3.8
Spr 2010	ME 5603	Advanced Manufacturing Systems Eng	29 G	4.6	4.7
Fall 2009	ME 5013	Enterprise Process Eng	9 G	4.1	4.5
Fall 2009	ME 5563	Computer Integrated Manufacturing**	14 G	4.7	4.7
Spr 2009	EGR 2513	Dynamics**	53 U	4.0	3.7
Fall 2008	ME 4583/5013	Enterprise Process Eng	1 U, 13 G	4.5	4.7
Spr 2008	ME 5013	Advanced Manufacturing Systems Eng*	17 G	4.0	3.9
Fall 2007	ME 4953	Enterprise Process Eng*	1 U, 6 G	4.6	4.7

\* The course was created by Hungda Wan as a new course at UTSA.

\*\* Hungda Wan's first time teaching this course.

## G. Student Mentoring

### Advised Masters' Theses

1. Chidiebube Igbelina	<i>The Synergistic Integration of Mass Customization, Parametric Design and Additive Manufacturing: A Case of Personalized Footwear</i>	Spring 2018 MS-AMEE
2. Veronica Lopez Hernandez	<i>Lean Six Sigma in a University Service Environment: Distinct Perspectives of Lean Implementation in Brownfield and Greenfield Projects</i>	Summer 2017 MS-AMEE
3. Clemente Romero Acosta	<i>Introducing Lean for Operational Metamorphosis: Case Study of Lean Transformation at the University of Texas at San Antonio Convention Center Department</i>	Spring 2017 MS-AMEE
4. Nihar Gupta	<i>The Desired Dynamics of Selected Lean Tools and Framework for Effective Design of Lean Simulation Games</i>	Spring 2016 MS-AMEE
5. Luong Hanh Nguyen	<i>Make-to-Stock or Make-to-Order Scheduling Based on Incremental Cost Resource Smoothing Heuristic Algorithm for Single Product Lot Sizing</i>	Spring 2014 MS-AMEE
6. Trumone Sims	<i>Applying Theory of Constraints as a Continuous Improvement Tool in a Lean Environment</i>	Spring 2014 MS-AMEE
7. Raul De Luna	<i>Implementation of Lean Tools in a Scientific Research and Development Facility</i>	Fall 2012 MS-AMEE

8. Firasath Ahmed Syed	<i>Parallel Batching Dominated Production Line: A Simulation Study of Capacity and Cost Sensitivity</i>	Fall 2012 MS-AMEE
9. Yi-Ching Liao	<i>Improving a Lean Office Simulation Game through Six Sigma Methodology</i>	Spring 2012 MS-AMEE
10. Rajesh Gutta	<i>A Web-based Decision Support Tool for Environmental Sustainability of Packaging</i>	Spring 2012 MS-AMEE
11. Venkata Krishna Gonnuru	<i>Radio-frequency Identification (RFID) Integrated Fuzzy Based Disassembly Planning and Sequencing for End-of-life Products</i>	Fall 2010 MS-ME
12. Mukul Tripathi	<i>An Intelligent Decision Support System for Workforce Forecasting and Planning</i>	Summer 2010 MS-AMEE
13. Sanjay Kumar Shukla	<i>Decision Models and Artificial Intelligence in Supporting Workforce Forecasting and Planning</i>	Fall 2009 MS-ME
14. Saumya Tamma	<i>A Dynamic Lean Assessment Tool Considering System Type and Current State</i>	Fall 2009 MS-ME

### **Advised Masters' Non-Theses Special Projects**

1. Anna Martinez	<i>Effects of Schedule Compression and Lean Six Sigma Prior to a Plant Shutdown</i>	Fall 2018 MS-AMEE
2. Carlos M. Cruzportillo	<i>Case Study of Air Force Continuous Process Improvement Program</i>	Fall 2018 MS-AMEE
3. George Jimenez	<i>Impact of Improving Document Collection Process on Conversion Rates for Medical Device Company</i>	Fall 2018 MS-AMEE
4. Jorge T. Lopez	<i>Using Six Sigma Methods and Principles to Minimize Loss of Damaged Full Goods in the PepsiCo Warehouse</i>	Fall 2018 MS-AMEE
5. Nihal Nethada	<i>Eight-step Improvement of an Experiment in Materials Engineering Lab</i>	Fall 2018 MS-AMEE
6. Santiago Lascurain	<i>Service Quality Improvement: Introducing Quality Benchmarks in a Tutoring Center to Reduce Variability between Tutors' Knowledge</i>	Spring 2018 MS-AMEE
7. Mohamed F. Awad	<i>Programmable Logic Controller Training Kit</i>	Fall 2016 MS-AMEE
8. Cyril Jose	<i>Application of Lean Six Sigma Methodology to Improve an Engine Assembly Line</i>	Fall 2016 MS-AMEE
9. Octavio Zavala Castro	<i>Lean Manufacturing Tools Implemented in a 3D Printing Laboratory</i>	Spring 2016 MS-AMEE
10. Mario Puente	<i>Advanced Manufacturing and Enterprise Systems Comprehensive Exam</i>	Spring 2016 MS-AMEE
11. Bianca Juarez	<i>Applying Six Sigma Concepts to Improving Quality on Tacoma Fuel Lids</i>	Fall 2015 MS-AMEE
12. Ahmed Kibria	<i>Optimization of Production Planning with Make-to-Stock and Make-to-Order Decisions</i>	Summer 2015 MS-AMEE
13. Brendan Gallagher	<i>Remote vs Inline Finishing for Filament Wound Composite Pipe Manufacturing</i>	Spring 2015 MS-AMEE
14. Sanjay Bommareddy	<i>Value Stream Mapping Current State Map of a Lens Manufacturing Company</i>	Spring 2015 MS-AMEE
15. Jorge A. Vazquez Doria	<i>Information and Process Mapping in Operations Management: A resource for Competitive Advantage</i>	Fall 2014 MS-AMEE

16. Avanija Vedala	<i>Facilitate Lean Implementation in Healthcare by Clustering Job Functions</i>	Summer 2013 MS-AMEE
17. Muhammad Haaris Shahid	<i>Lean Implementation in Automated and Non-automated Manufacturing Configurations: A Study of Two Real Cases</i>	Spring 2013 MS-AMEE
18. Venkata Krishna Reddy Madana	<i>Value Stream Mapping for Lean Manufacturing Implementation - A case study at Helmet Chin Strap Manufacturing Unit</i>	Spring 2013 MS-AMEE
19. Valeria De La Rocha	<i>Aircraft Maintenance and Modification Cell Layout: Lean Facilities Planning for Parts and Material Flow</i>	Fall 2012 MS-AMEE
20. Aziz A. Maredia	<i>Voxel Point Representation of 3-Dimensional Objects</i>	Fall 2012 MS-ME
21. Ashish Kadiwal	<i>Improving Manufacturing Sustainability via Dynamic Matching and Repurposing</i>	Fall 2011 MS-ME
22. Kaushik Shankar	<i>Sustainability of Manufacturing: Theory and Practices in Industry</i>	Fall 2011 MS-ME
23. Sindhura Vuppala	<i>Value Stream Mapping and Productivity Improvement: A Case Study of Seamless Tube Production</i>	Summer 2011 MS-AMEE
24. Pradeep B. Nagaraju	<i>Appropriate Drying Time for Rapid Prototyped Objects Using 3-D Printing Technology</i>	Spring 2011 MS-ME
25. Supriya Konanki	<i>Impact of Lean Tools on Patient-Care Practices</i>	Spring 2011 MS-AMEE
26. Kishore Tenneti	<i>Selection of Rapid Prototyping Machines Using Analytic Hierarchy Process (AHP)</i>	Spring 2011 MS-AMEE
27. Aniket Sahasrabudhe	<i>Prioritization of Lean Tools Using Gap Analysis and Analytic Network Process (ANP)</i>	Fall 2010 MS-ME
28. Brice Gabriel	<i>Benefits of Dynamic Matching and Flexible Rework</i>	Fall 2010 MS-ME
29. Vikram Gogula	<i>Impact of Lean Tools on Energy Consumption</i>	Fall 2010 MS-AMEE
30. Balu M. Tadikonda	<i>Self-Directed Lean Training with Web-Based Simulation Games Using Adobe Flash</i>	Fall 2010 MS-ME
31. Mohammed S. Jamil	<i>Efficacy of Control Charts: A Case Study on Shewhart, EWMA, and CUSUM Charts</i>	Fall 2010 MS-AMEE
32. Mukharjee C. Vemulapalli	<i>Orientation of 3D Printed Objects to Reduce Damage by Vibration</i>	Fall 2010 MS-ME
33. Dinesh Bandi	<i>Applicability of Rapid Tooling of Sheet Metal Forming Dies Considering Fatigue Life and Economical Factors</i>	Summer 2010 MS-ME
34. Venkata T. Cherukuri	<i>Multiple Parts Arrangement for Rapid Prototyping Using Particle Swarm Optimization</i>	Summer 2010 MS-ME
35. Kranthi K. Tiyyagura	<i>Selecting Best-fit DBMS for Web-based ERP Vendors Using AHP</i>	Spring 2010 MS-ME

## H. Professional Societies

- Member, Institute of Industrial and Systems Engineers (IISE), since 2004.
- Member, Society of Manufacturing Engineers (SME), since 2005.
- Member, American Society for Engineering Education (ASEE), 2009-2013, 2015-Present.