CURRICULUM VITAE

DATE: 02/19/2015

Dr. Ertunga Cem Ozelkan,
Interim Chair and Associate Professor,
Systems Engineering & Engineering Management,
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EDUCATION

Ph.D.	University of Arizona, Tucson, AZ	1997	Systems and Industrial Engineering
M.S.	University of Arizona, Tucson, AZ	1994	Systems Engineering
B.S.	Bogazici University, Istanbul, Turkey	1991	Civil Engineering

EXPERIENCE

Academic Appointments

University of North Carolina at Charlotte, Systems Engineering & Engineering Management	Interim Chair	2013 - Present
	Program Director	2012 - 2013
	Associate Professor	2010 - Present
	Assistant Professor	2004 - 2010
	Associate Director, Center for Lean Logistics and Engineered Systems	2005 - Present
University of Texas at Dallas, Information Systems and Operations Management	Visiting Assistant Professor	2002 - 2003
University of Arizona, Systems and Industrial Engineering	Research Assistant	1993 - 1996
	Teaching Assistant	1994
University of Karlsruhe, Germany, Institute for Hydrology	Research Assistant	1991 - 1992

Industry Appointments

i2 Technologies	Manager, Curriculum Development/Customer Service	2001 - 2002
	Sr. Consultant/Solution Architect	1999 - 2001
	Applications Engineer	1998 - 1999

i2 is a software company specializing in supply chain management. While at i2, I

- Managed a cross-functional team of 20+ consultants and the development of 50+ supply chain courses.
- Delivered private training classes on i2's supply chain management software to various High-Tech companies including Nokia, Xircom, Fujitsu, Texas Instruments, and IBM.
- Trained over 150 people in Asia Pacific and Australia on i2 TradeMatrix Marketplace Solutions.

- Developed the Demand Fulfillment and Procurement Collaboration Training Curricula.
- Participated in the Compaq Demand Fulfillment software implementation.

Tefen Ltd.	Project Manager	1997 - 1998
	Consultant	1996 - 1997

Tefen is a systems analysis and industrial engineering consulting firm specialized in semiconductor manufacturing. While at Tefen, I

- Worked in a number of productivity improvement, capacity and staffing planning, and facility layout design projects in Semiconductor and Electronics industries.
- Some of my major projects were with Staktek Corporation, Elbit Systems (EFW), National Semiconductors, VLSI Corporation (now Phillips Semiconductors), Burr-Brown Semiconductors (now Texas Instruments), Analog Devices, Motorola and IBM.

RESEARCH ACCOMPLISHMENTS

Refereed Journal Articles

1. Futrell, B. J., E.C. Ozelkan, and D. Brentrup, 2015, Optimizing Building Design for Daylighting: A Comparison of Direct Search Optimization Techniques, Energy and Buildings, (In-press).
2. Ozelkan, E., Bagis, S., **E.C. Ozelkan,** B.B. Ustundag, M. Yucel, C. Ormeci, 2014, "Spatial interpolation of climatic variables using land surface temperature and modified inverse distance", International Journal of Remote Sensing (In-press).
3. Ozelkan, E.C., M.D. Sarder, and A. Ali, 2014, Back to Fundamentals For a Successful Lean Six Sigma Enterprise Transformation: an Introduction to Jet Special Issue on Case Studies in Lean Enterprise Transformation, , Special Issue on "Lean Enterprise Transformation", Journal of Enterprise Transformation, 4(2), 73-75.
4. Ozelkan, E.C. and J. Mayhorn, 2014, Using Lean Six Sigma to Empower Students for Executing Departmental Initiatives, International Journal of Six Sigma and Competitive Advantage, 8 (3/4), 176-202.
5. Ozelkan, E., S. Bagis, **E.C. Ozelkan,** B.B. Ustundag, C. Ormeci, 2014, "Land Surface Temperature Retrieval for Climate Analysis and Association with Climate Data", European Journal of Remote Sensing, 47(1), 655-669.
6. Ozelkan, E.C., A. Ali, and M.D. Sarder, 2013, Lean Enterprise Transformation is a Business Necessity for Sustainable Growth: An Introduction to the JET Special Issue, Special Issue on "Lean Enterprise Transformation", Journal of Enterprise Transformation, 3(3), 133-135.
7. Ozelkan E. C., O. Ozturk, E. Budak, 2011, Identifying Parameters of a Broaching Design Using Non-Linear Optimization, International Journal of Modelling, Identification and Control, 2010 12 (3), 244-252.
8. Ozelkan, E. C. and M. Cakanyildirim, 2009, Reverse Bullwhip Effect in Pricing, European Journal of Operational Research, 192, 302-312, Available Online in 2007: doi:10.1016/j.ejor.2007.09.009.
9. Ozelkan, E. C. and C. Lim, 2008, Conditions of Reverse Bullwhip Effect in Pricing for Price-Sensitive Demand Functions, Annals of Operations Research, 164, 211–227, Available Online: doi: 10.1007/s10479-008-0444-9
10. Ozelkan, E. C. and A. Galambosi, 2009, Lampshade Game for Lean Manufacturing, Production Planning and Control, 20(5), 385-402.
11. Ozelkan, E. C., A. D'Ambrosio, and S. G. Teng, 2008, Optimizing Liquefied Natural Gas Terminal Design for Effective Supply Chain Operations, International Journal of Production Economics, 111 (2), 529-542.

12. Ozelkan, E. C. and A. Galambosi, 2008. When Does RFID Make Business Sense for Managing Supply Chains?, International Journal of Information Systems and Supply Chain Management, 1 (1), 15-47.
13. Ozelkan, E. C., and M. Cakanyildirim, 2007, Resource Downgrading, European Journal of Operational Research, 177 (1), 572-590.
14. Ozelkan, E. C., S.G. Teng, T. Johnson, T. Benson and D. Nestvogel, 2007, Building Lean Supply Chain and Manufacturing Skills through an Interactive Case Study, Industry & Higher Education, 21 (4), 265-278.
15. Ozelkan, E. C., and M. Cakanyildirim, 2006, Test Wafer Management in Semiconductor Manufacturing, IEEE Transactions on Semiconductor Manufacturing, 19 (2), 241-251.
16. Ozelkan, E. C. and L. Duckstein, 2000, Multi-objective fuzzy regression: a general framework, Computers and Operations Research, Special Issue on Artificial Intelligence and Decision Support with Multiple Criteria 27(7-8), 635-652
17. Ozelkan, E. C. and L. Duckstein, 1999, Optimal fuzzy counterparts of scheduling rules, European Journal of Operational Research, 113 (3), 593-599.
18. Ozelkan, E. C., A. Galambosi, E. Fernandes, and L. Duckstein, 1997, Linear quadratic dynamic programming for water reservoir management, Applied Mathematical Modeling, 21, 591-598.
19. Ozelkan, E. C. and L. Duckstein, 1996, Analyzing water resources alternatives and handling criteria by multicriterion decision techniques, Journal of Environmental Management, 48, 69-96.
20. Galambosi, A., E. C. Ozelkan and L. Duckstein, 2008, The Impact of ENSO and Macrocirculation Patterns on Precipitation under Climate Change, Journal of Environmental Geology, 58, 929-935, Available Online: doi: 10.1007/s00254-008-1572-x
21. Ozelkan, E. C. and L. Duckstein, 2001, Fuzzy Conceptual Rainfall-Runoff Models, Journal of Hydrology 253, 41-68
22. Galambosi, A., L. Duckstein, E.C. Ozelkan, and I. Bogardi, 1999, Fuzzified effect of ENSO and macrocirculation patterns on precipitation: an Arizona case study", International Journal of Climatology, 19(13-15).
23. Ozelkan, E. C., L. Duckstein, A. Galambosi, and, A. Bardossy, 1998, A multi-objective fuzzy classification of large scale atmospheric circulation patterns for precipitation modeling, Applied Mathematics and Computation, 91(2), 127-142.
24. Ozelkan, E. C., Ni, F. and L. Duckstein, 1996, Relationship between monthly atmospheric circulation patterns and precipitation: fuzzy logic and regression approaches, Water Resources Research, 32(7), 2097-2103.

Refereed Journal Articles – Under Review

25. Demirel, E., E. C. Ozelkan, and C. Lim, 2014, Aggregate Planning with Flexibility Requirements Profile, European Journal of Operational Research (Under Review).
26. Futrell, B. J., E.C. Ozelkan, and D. Brentrup, 2015, Bi-objective Optimization of Building Enclosure Design for Thermal and Lighting Performance, Buildings and Environment (Under Review).
27. Ozelkan, E.C. and J. Mayhorn, 2015, Effectiveness of Department Sponsored Lean Six Sigma Project-Based Learning, International Journal of Lean Six Sigma (Under Review).

Journal Articles – In Progress

28. Demirel, E., E. C. Ozelkan, and C. Lim, Bi-Objective Optimization for Aggregate Planning with Flexibility Requirements Profile, Targeted for International Journal of Production Economics (In-progress).

29. Demirel, E., E. C. Ozelkan, and C. Lim, Effect of Production Plan Stability on Lean System Operations, Targeted for Journal of Enterprise Transformation (In-progress).
30. Lim, C. and E. C. Ozelkan, Stabilizing production plans using flexibility requirements, (under review) Targeted for Production and Operations Management (In-progress).
31. Ozelkan, E. C. and C. Lim, Reverse bullwhip effect in pricing under joint decision of single-period replenishment and pricing (In-progress).
32. Ozelkan, E. C., and N. Geismar, Optimal procurement in a group buying framework: Volume Discounted and Combinatorial Cases (in-progress)
33. Ozelkan, E., M. Karaman, S. Candar, **E.C. Ozelkan,** C. Ormeci, Hyperspectral Analysis of Grapevine Water Stress, (In Progress).
34. Teng, S. G., D'Ambrosio, A., and E. C. Ozelkan, Logistical Analysis for Conceptual Design of a Global Natural Gas Supply Chain, (In Progress)

Refereed Conference Proceedings

1. Demirel, E., E. C. Ozelkan, and C. Lim, Effect of Production Plan Stability on Lean System Operations, Proceedings of the 2014 Industrial and Systems Engineering Research Conference, Y. Guan and H. Liao, eds., Montreal, Canada, May 31-June 3, 2014.
2. Futrell, B. and E. C. Ozelkan, Optimizing Building Envelope Component Design for Thermal and Lighting Performance, (to appear) Proceedings of the 2014 Industrial and Systems Engineering Research Conference, Y. Guan and H. Liao, eds., Montreal, Canada, May 31-June 3, 2014.
3. Divine, K., C. Clausen, T. Smith, C. Scott, K. Beacham, M. Hunoval, M., E.C. Ozelkan, S.G. Teng, and J. Mayhorn, Lean Six Sigma to Reduce Lead Times in Legal Business Processes, Proceedings of the 2013 IIE Engineering Lean and Six Sigma Conference MD Sarder, eds., September 24, 2013, Atlanta, GA.
4. Divine, K., T. Murray, T. Moore, M. Hunoval, E.C. Ozelkan, S.G. Teng, and J. Mayhorn, Lean Six Sigma to Enhance Incentives Plan in Law Offices, Proceedings of the 2013 IIE Engineering Lean and Six Sigma Conference MD Sarder, eds., September 24, 2013, Atlanta, GA.
5. Ozelkan, E., S. Bagis, B.B. Ustundag, M. Yucel, **E. C. Ozelkan**, C. Ormeci, Land Surface Temperature - Based Spatial Interpolation Using a Modified Inverse Distance Weighting Method, Proceedings of IEEE 2013 Second International Conference on Agro-Geoinformatics.
6. Demirel, E., E. C. Ozelkan, and C. Lim, Bi-Objective Optimization for Aggregate Planning with Flexibility Requirements Profile, Proceedings of the 2013 Industrial and Systems Engineering Research Conference, A. Krishnamurthy and W.K.V. Chan, eds., San Juan, Puerto Rico, May 18-22, 2013.
7. Futrell, B. and E. C. Ozelkan, Optimizing Building Design for Daylighting Performance, Proceedings of the 2013 Industrial and Systems Engineering Research Conference, A. Krishnamurthy and W.K.V. Chan, eds., San Juan, Puerto Rico, May 18-22, 2013.
8. D'Ambrosio, A. and E. C. Ozelkan, Lean Unconventional Oil and Gas Development, Proceedings of the 2013 Industrial and Systems Engineering Research Conference, A. Krishnamurthy and W.K.V. Chan, eds., San Juan, Puerto Rico, May 18-22, 2013.
9. Ozelkan, E. C., P. L, Schmidt, D. Hatley, and K. A. Boutin-Pasterz, Interactive Bottle Recycler: A "Green" Senior Design Project Case Study, Proceedings of the American Society for Engineering Education (ASEE) Annual Conf. & Exposition, Atlanta, GA, June 23-26, 2013.
10. Galambosi, A. and E. C. Ozelkan, Online Teaching Best Practices: Faculty Preferences, Proceedings of the American Society for Engineering Education (ASEE) Annual Conf. & Exposition, Atlanta, GA, June 23-26, 2013.

11. Mayhorn, J. and E. C. Ozelkan, Partnering With Students to Continuously Improve the Systems, Engineering & Engineering Management Program, Proceedings of the American Society for Engineering Education (ASEE) Annual Conf. & Exposition, Atlanta, GA, June 23-26, 2013.
12. Ozelkan, E. C., W. D. Armstrong, and J. Sharkey, Multi-criteria Evaluation of Bus Maintenance Testing Methods in Nuclear Power Plants, Proceedings of the 2012 Industrial and Systems Engineering Research Conference, G. Lim and J.W. Herrmann, eds., Orlando, FL, May 20-23, 2012.
13. Demirel, E., E. C. Ozelkan, and C. Lim, Experimental Analysis of Aggregate Planning with Flexibility Requirements Profile in Automotive and Textile Industries, Proceedings of the 2012 Industrial and Systems Engineering Research Conference, G. Lim and J.W. Herrmann, eds., Orlando, FL, May 20-23, 2012.
14. Ozelkan, E. C. and A. Galambosi, Overcoming Communication Barriers in Online Teaching: Understanding Faculty Preferences, Proceedings of the International Conference on Communication, Media, Technology and Design, Istanbul, Turkey, May 9-11, 2012.
15. Ozelkan, E. C. and A. Galambosi, Perception and Preferences of Faculty for Online Learning, Proceedings of the American Society for Engineering Education (ASEE) Annual Conf. & Exposition, Vancouver, Canada, June 26-29, 2011.
16. A. Galambosi, and Ozelkan, E. C., Integrating Sustainability into Systems Engineering Curriculum, Proceedings of the American Society for Engineering Education (ASEE) Annual Conf. & Exposition, Vancouver, Canada, June 26-29, 2011.
17. Ozelkan, E. C. and Lim, C., Conditions of Reverse Bullwhip Effect in Pricing for Joint Decision of Replenishment and Pricing with Newsvendor Inventory Policy, Proceedings of the 2011 Industrial Engineering Research Conference, T. Doolen and E. Van Aken, eds., Reno, NV, May 21-25, 2011.
18. Lim, C. and E. C. Ozelkan, Applying Flexibility Requirements Profile for Stabilizing Production Plans, Proceedings of the 2009 Industrial Engineering Research Conference, Miami, FL, May 29-June 3, 2009.
19. Ozelkan, E. C. and A. Galambosi, Benchmarking Distance Education in Engineering Management Programs, Proceedings of the American Society for Engineering Education (ASEE) Annual Conf. & Exposition, Austin, TX, June 13-17, 2009.
20. Ozelkan, E. C. and A. Galambosi, Value of Online Curriculum for Engineering and Engineering Management Programs, Proceedings of the American Society for Engineering Education (ASEE) Annual Conf. & Exposition, Austin, TX, June 13-17, 2009.
21. Whitesel, C. and E. C. Ozelkan, Lean Monitoring of Power to Reduce Waste, Proceedings of the 2008 Industrial Engineering Research Conference, Vancouver, Canada, May 17-21, 2008.
22. Ozelkan, E. C. and A. Galambosi, Effectiveness of Virtual Reality Applications in Teaching Engineering and Engineering Management Curriculum, Proceedings of the American Society for Engineering Education (ASEE) Annual Conf. & Exposition, Pittsburgh, PA, June 22-25, 2008.
23. Ozelkan E. C., O. Ozturk, E. Budak, Optimization of Broaching Design, Proceedings of the IIE Research Conference (IERC), Nashville, TN, May 19-23, 2007.
24. Ozelkan, E. C. and A. Galambosi, Lean Lampshade Game for Teaching Lean Manufacturing, Proceedings of the American Society for Engineering Education (ASEE) Annual Conference & Exposition, Honolulu, Hawaii, June 24-27, 2007.
25. Ozelkan, E. C., S.G. Teng, T. Johnson, T. Benson and D. Nestvogel, A Collaborative Case Study for Teaching “Achieving Lean System Benefits in Manufacturing and Supply Chains” to Engineering Management Students, Proceedings of the American Society for Engineering Education (ASEE) Annual Conference & Exposition, Honolulu, Hawaii, June 24-27, 2007.
26. Teng, S.G., E. C. Ozelkan, Y. Sireli, K. Elmore, Achieving Success for the Development of Systems Engineering & Engineering Management Department & Degree Programs,

Proceedings of the American Society for Engineering Education (ASEE) Annual Conference & Exposition, Honolulu, Hawaii, June 24-27, 2007.

27. Ozelkan, E. C., A Combinatorial Optimization Model for Group Buying in Supply Chains, Proc. of the IIE Research Conference (IERC), Paper No. 1635, Orlando, FL, May 20-24, 2006.
28. Ozelkan, E. C. and D. Rajamani, 5P Framework for Teaching and Characterizing Supply Chains Effectively, Proceedings of the IIE Research Conference (IERC), Paper No. 1757, Orlando, FL, May 20-24, 2006.
29. Ozelkan, E. C., T. Sireli, M. P. Munoz, S. Mahadevan, A Decision Model to Analyze Costs and Benefits of RFID for Superior Supply Chain Performance, Proceedings of the PICMET Conference: Technology Management for the Global Future, Istanbul, Turkey, July 8-13, 2006.
30. Ozelkan, E. C. and D. Rajamani, An Effective Framework for Teaching Supply Chain Management, Proceedings of the American Society for Engineering Education (ASEE) Annual Conference & Exposition, Chicago, IL, June 18-21, 2006.
31. Sireli, Y., S. G. Teng, and E. C. Ozelkan, Growth of a Young Engineering Management Program, Proceedings of the American Society for Engineering Education (ASEE) Annual Conference & Exposition, Chicago, IL, June 18-21, 2006.
32. D'Ambrosio, A., E. C. Ozelkan, and S. G. Teng. Impact of Supply Chain Capabilities on Liquefied Natural Gas Terminal Design. Proceedings of the Global Institute for Energy and Environmental Systems (GIEES) Annual Conference, July, 24-30, 2005.
33. D'Ambrosio, A., E. C. Ozelkan, and S. G. Teng. Commodity Price Risk Management in the Natural Gas Supply Chain. Proceedings of the Global Institute for Energy and Environmental Systems (GIEES) Annual Conference, July, 24-30, 2005.
34. Galambosi, A., E. C. Ozelkan and L. Duckstein. The Impact of ENSO and Macrocirculation Patterns on Precipitation under Climate Change. Proceedings of the Global Institute for Energy and Environmental Systems (GIEES) Annual Conference, July, 24-30, 2005.
35. Galambosi A., L. Duckstein, E.C. Ozelkan, and, I. Bogardi, A fuzzy rule-based model to link circulation patterns, ENSO, and extreme precipitation, Proceedings of the Eighth Engineering Foundation Conference, Santa Barbara, California, on October 12-17, 1997.
36. Ozelkan, E. C., O. Harel, D. Meyersdorf , J. Mercier, and R. Rao, 1998, Simulation methodology for WIP management in semiconductor manufacturing, Proceedings of the AutoSimulations Symposium, Bountiful, UT, June 21-26.
37. Ozelkan, E. C., L. Duckstein, and A. Galambosi, 1998, Analysis of trade off between data outliers and prediction vagueness in fuzzy regression using a bi-objective framework, Proceedings of the EUFIT ’98 – Sixth European Congress on Intelligent Techniques and Soft Computing, 7-10 September, Aachen, Germany.
38. Meyersdorf, D., O. Biron, E. C. Ozelkan, and J. Fowler, 1997, Staffing analysis tool for operator-machine-lot interference in semiconductor manufacturing, in Proceedings of the 8th Int. Symposium on Semiconductor Manufacturing ASMC, 323-329, Boston, Sept 10-12.
39. Ozelkan, E. C., and L. Duckstein, 1999, Fuzzy logic to analyze the uncertainty in conceptual rainfall-runoff models, Proceedings of the American Meteorological Society ’99 – 14th Hydrology Conference, 10-15 January, Dallas, TX, 376-379.
40. Galambosi A., E.C. Ozelkan, L. Duckstein, and, I. Bogardi, 1999, A fuzzy rule-based model for precipitation analysis under climate change in the US Southwest, Proceedings of the American Meteorological Society ’99 – 14th Hydrology Conference, 10-15 January, Dallas, TX, 29-30.
41. Hsu, K., E.C. Ozelkan, and L. Duckstein, 1993, Fuzzy regression-based rainfall-runoff estimation, Proc. of the Sixth Annual Symp. of the Arizona Hydrolog. Society, Casa Grande, AZ.

Refereed Conference Proceedings – Under Review

42. Adnan, Z., and E. C. Ozelkan, Analysis of reverse bullwhip effect in pricing for a multi-stage supply chain with competing suppliers, Proceedings of the 2015 Industrial and Systems Engineering Research Conference, Nashville, TN, May 30-June 2, 2015. (under review)
43. Mohammadi, A. and E. C. Ozelkan, Effect of long-term buying relationships in group purchasing environment in the presence of inventory holding, Proceedings of the 2015 Industrial and Systems Engineering Research Conference, Nashville, TN, May 30-June 2, 2015. (under review)

Non-Refereed Conference Proceedings

1. Ozelkan, E. C. and M. Cakanyildirim. Reverse Bullwhip Effect in Pricing. Proceedings of the 2005 POMS OM Frontiers: Winds of Change Conference, April 29 - May 2, 2005.
2. Ozelkan, E. C., and M. Cakanyildirim, 2004, Resource Downgrading, Proceedings of the Second World Conference on POM and 15th Annual POM Conference, Cancun, Mexico, April 30 - May 3.
3. Ozelkan, E. C., Geismar, N. and Srikandarajah, C., 2003, Optimal procurement in a group buying framework, Proceedings of the POM 2003 Conference - Production and Operation Management in Service Economy, Savannah, Georgia, April 4-7.

Conference Presentations

1. Ozelkan, E. C. and Mayhorn, J., Lean Six Sigma-based Student Projects for Continuous Program Improvement, IIE Engineering Lean Six Sigma Conference (ELSS), Orlando, FL, September 30, 2014.
2. Ozelkan, E. C., Cato, I. and Sanchez, I., A S.I.M.P.L.E. Lean Six Sigma Framework, IIE Engineering Lean Six Sigma Conference (ELSS), Orlando, FL, September 30, 2014.
3. Galambosi, A. and E. C. Ozelkan, Online Teaching Best Practices: Faculty Preferences, Proceedings of the American Society for Engineering Education (ASEE) Annual Conf. & Exposition, Atlanta, GA, June 23-26, 2013.
4. Mayhorn, J. and E. C. Ozelkan, Partnering With Students to Continuously Improve the Systems, Engineering & Engineering Management Program, Proceedings of the American Society for Engineering Education (ASEE) Annual Conf. & Exposition, Atlanta, GA, June 23-26, 2013.
5. Ozelkan, E. C., P. L, Schmidt, D. Hatley, and K. A. Boutin-Pasterz, Interactive Bottle Recycler: A ”Green” Senior Design Project Case Study, Proceedings of the American Society for Engineering Education (ASEE) Annual Conf. & Exposition, Atlanta, GA, June 23-26, 2013.
6. Ozelkan, E. C. and A. Galambosi, Perception and Preferences of Faculty for Online Learning, Proceedings of the American Society for Engineering Education (ASEE) Annual Conf. & Exposition, Vancouver, Canada, June 26-29, 2011.
7. A. Galambosi, and Ozelkan, E. C., Integrating Sustainability into Systems Engineering Curriculum, Proceedings of the American Society for Engineering Education (ASEE) Annual Conf. & Exposition, Vancouver, Canada, June 26-29, 2011.
8. Demirel, E., E. C. Ozelkan, and C. Lim, Experimental Analysis of Aggregate Planning with Flexibility Requirements Profile, Poster Presentation at the 2011 INFORMS Conference, Nov 13-16, 2011.
9. Ozelkan, E. C. and C. Lim, Conditions of Reverse Bullwhip Effect in Pricing for Joint Decision of Replenishment and Pricing with Newsvendor Inventory Policy, Proceedings of the 2011 Industrial Engineering Research Conference, Reno, NV, May 21-24, 2011.

10. Lim, C., E. C. Ozelkan, E. Demirel, Monte Carlo Simulation of Aggregate Planning under Flexibility Requirements Profile, Proceedings of the 2011 Industrial Engineering Research Conference, Reno, NV, May 21-24, 2011.
11. Pala, O., D. Wilson, H. Lipford, E.C. Ozelkan, W. Tolone, Recommendation System as a Decision Support Tool for Critical Infrastructure Recovery, 2011 Industrial Engineering Research Conference, Reno, NV, May 21-24, 2011.
12. Ozelkan, E. C. and Lim, C., Production Plan Stability: Survey of Modeling Techniques, Presentation at the 2009 Industrial Engineering Research Conference, Miami, FL, June 2, 2009.
13. Ozelkan, E. C., A. Galambosi and D. Nestvogel, Lean Wake-up Call in Pass and Seymour/legrand: A Case Study, Presentation at the 2009 Industrial Engineering Research Conference, Miami, FL, May 31, 2009.
14. Ozelkan, E. C. and A. Galambosi, Benchmarking Distance Education in Engineering Management Programs, Proceedings of the American Society for Engineering Education (ASEE) Annual Conf. & Exposition, Austin, TX, June 13-17, 2009.
15. Ozelkan, E. C. and A. Galambosi, Value of Online Curriculum for Engineering and Engineering Management Programs, Proceedings of the American Society for Engineering Education (ASEE) Annual Conf. & Exposition, Austin, TX, June 13-17, 2009.
16. Ozelkan, E. C. and C. Lim, Reverse Bullwhip Effect in Pricing for Price-sensitive Demand and Joint Replenishment and Pricing, INFORMS Annual Conference 2008, Washington D.C., Oct 12-14, 2008.
17. Ozelkan, E. C. and A. Galambosi, Effectiveness of Virtual Reality Applications in Teaching Engineering and Engineering Management Curriculum, Proceedings of the American Society for Engineering Education (ASEE) Annual Conference & Exposition, Pittsburgh, PA, June 22-25, 2008.
18. Ozelkan E. C. and A. Galambosi, Lean Lampshade Game for Lean Manufacturing, Invited Presentation in the Lean Education and Simulation Games session at the Industrial Engineering Research Conference, Vancouver, Canada, May 17-21, 2008.
19. Ozelkan, E. C. and C. Lim, Stabilizing Production Plans using Flexibility Requirements Profile, POMS 2007, Dallas, TX, May 4-7, 2007.
20. Ozelkan, E. C. and A. Galambosi, When Does RFID Make Business Sense for Managing Supply Chains?, POMS 2007, Dallas, TX, May 4-7, 2007.
21. Ozelkan, E. C. and C. Lim, Impact of Upstream Price Variability on Supply Chain Retail Prices, IIE Research Conference (IERC), Nashville, TN, May 19-23, 2007.
22. Ozelkan E. C., O. Ozturk, E. Budak, Optimization of Broaching Design, Proceedings of the IIE Research Conference (IERC), Nashville, TN, May 19-23, 2007.
23. Ozelkan, E. C. and A. Galambosi, Lean Lampshade Game for Teaching Lean Manufacturing, Proceedings of the American Society for Engineering Education (ASEE) Annual Conference & Exposition, Honolulu, Hawaii, June 24-27, 2007.
24. Ozelkan, E. C., S.G. Teng, T. Johnson, T. Benson and D. Nestvogel, A Collaborative Case Study for Teaching “Achieving Lean System Benefits in Manufacturing and Supply Chains” to Engineering Management Students, Proceedings of the American Society for Engineering Education (ASEE) Annual Conference & Exposition, Honolulu, Hawaii, June 24-27, 2007.
25. Ozelkan, E. C., A Combinatorial Optimization Model for Group Buying in Supply Chains, Proceedings of the IIE Research Conference (IERC), Orlando, FL, May 20-24, 2006.
26. Ozelkan E. C. and D. Rajamani, 5P Framework for Teaching and Characterizing Supply Chains Effectively, Proceedings of the IIE Research Conference (IERC), Orlando, FL, May 20-24, 2006.
27. Ozelkan, E. C., T. Sireli, M. P. Munoz, S. Mahadevan, A Decision Model to Analyze Costs and Benefits of RFID for Superior Supply Chain Performance, Proceedings of the PICMET

Conference: Technology Management for the Global Future, Istanbul, Turkey, July 8-13, 2006.
28. Ozelkan, E. C. and D. Rajamani, An Effective Framework for Teaching Supply Chain Management, Proceedings of the American Society for Engineering Education (ASEE) Annual Conference & Exposition, Chicago, IL, June 18-21, 2006.
29. Ozelkan, E. C. and M. Cakanyildirim. Reverse Bullwhip Effect in Pricing. Proceedings of the 2005 POMS OM Frontiers: Winds of Change Conference, April 29 - May 2, 2005.
30. Ozelkan, E. C., and M. Cakanyildirim, 2004, Resource Downgrading, Proc. of the Second World Conference on POM and 15th Annual POM Conference, Cancun, Mexico, April 30 - May 3.
31. Ozelkan, E. C., Geismar, N. and Srikandarajah, C., 2003, Optimal procurement in a group buying framework, Proceedings of the POM 2003 Conference - Production and Operation Management in Service Economy, Savannah, Georgia, April 4-7.
32. Ozelkan, E. C. and M. Cakanyildirim. Optimal Test Wafer Management in Semiconductor Manufacturing. IIE Annual Conference, Atlanta, May 14-18, 2005.
33. Ozelkan, E. C., Cakanyildirim, M. and B. Foster, 2003, Managing Test Wafer Inventory in Semiconductor Manufacturing, 2003 EURO/INFORMS Joint International Meeting – Istanbul, July 6-10.
34. Ozelkan, E. C., 2002, Optimality conditions for fuzzy scheduling rules, Presented at INFORMS – San Jose, November 16-20.
35. Ozelkan, E. C., and L. Duckstein, 1999, Fuzzy logic to analyze the uncertainty in conceptual rainfall-runoff models, Proceedings of the American Meteorological Society '99 – 14th Hydrology Conference, 10-15 January, Dallas, TX, 376-379.
36. Ozelkan, E. C., D. Meyersdorf and B. Foster, 1997, Test wafer opportunities for cost reduction, INFORMS Annual Conference- Dallas, October.
37. Meyersdorf, D., O. Biron, and E.C. Ozelkan, 1997, Operator-machine-lot interference analysis in semiconductor manufacturing, Presented INFORMS - Dallas, October.
38. Ozelkan, E.C., K. Hsu, L. Duckstein, and A. Galambosi, 1996, Analysis of Macro-circulation Patterns for Precipitation Modelling using a Neural Network Classification Scheme: An Arizona Case Study, Poster Presentation in AGU Spring Meeting, Baltimore, Maryland, May 20-14, Published by AGU as a Supplement to EOS, Vol. 77 No. 11, p. S96, April 23, 1996.
39. Ozelkan, E.C., A. Galambosi, L. Duckstein, A. Bardossy, I. Bogardi, and I. Matyasovszky, 1995, A Fuzzy Classification of Macrocirculation Patterns for Analyzing Precipitation Under Climate Change in Developing Countries, presented at IUGG XXI General Assembly, Boulder, Colorado, July 2-14.
40. Galambosi A., E.C. Ozelkan, E. Fernandez, and L. Duckstein, 1995, Water Reservoir Management Using Linear Quadratic Dynamic Programming, presented as a poster at IUGG XXI General Assembly, Boulder, Colorado, July 2-14.

Invited Presentations

1. Ozelkan, E. C., Reverse Bullwhip Effect in Pricing Joint Replenishment and Pricing, Invited presentation at the Clemson University, Industrial Engineering Seminar Series, October 29, 2010.
2. Ozelkan, E. C., Survival Strategies for the Automotive Suppliers, Manufacturer's Forum for Automotive Suppliers, Sponsored by Centralina Economic Development Division, Concord, NC, March 11, 2009.
3. Ozelkan E. C. and A. Galambosi, Lean Lampshade Game for Lean Manufacturing, Invited Presentation in the Lean Education and Simulation Games session at the Industrial Engineering Research Conference, Vancouver, Canada, May 17-21, 2008.

4. Ozelkan, E. C., Feasibility of RFID Decisions for Managing Supply Chains – A Returns Analysis, Invited speaker: 3rd Annual RFID-Integrated Supply Chains Symposium, organized by Baylor University's Hankamer School of Business, Waco, Texas, U.S.A. September 27-28, 2007.
5. Ozelkan, E. C., Optimizing Liquefied Natural Gas Terminal Design for Effective Supply Chain Operations, Infrastructure and Environmental Systems Ph.D. Program Seminar, UNC Charlotte, September 25, 2007.
6. Ozelkan, E. C., Positioning Carolinas for Global Supply Chain Success, Council of Supply Chain Management Professionals (CSCMP) Panel Discussion, Charlotte, NC, September 18, 2007.
7. Ozelkan, E. C. and O. Ozturk, Optimization of Broaching Design, Industrial Engineering Research Conference (IERC), Nashville, TN, May 19-23, 2007.
8. Ozelkan, E. C. and C. Lim, Stabilizing Production Plans using Flexibility Requirements Profile, POMS 2007, Dallas, TX, May 4-7, 2007.
9. Ozelkan E. C. and A. Galambosi, Lean Lampshade Game, Invited talk and demonstration at the society meeting of the UNC Charlotte Student Chapter of American Society of Engineering Management on 3/22/07.
10. Ozelkan, E. C., S. G. Teng, T. Johnson, T. Benson and D. Nestvogel, Achieving Lean System Benefits: A Lean Supply Chain Case Study, American Society for Quality Meeting at UNC Charlotte April 17, 2006.
11. Teng, S. G. and E. C. Ozelkan, Supply Chain Management and Center for Lean Logistics & Engineered Systems – CLLES, Engineering Management Seminar Series, UNC Charlotte, March 14, 2005.

Book

1. Ozelkan, E.C., Cato, I. and Sanchez, I., Lean Six Sigma made S.I.M.P.L.E.: An Integrated Continuous Improvement Framework for Current and Future Leaders, Momentum Press (Contract signed – Under revision).

Book Chapters

1. Ozelkan, E.C. and Galambosi, A., 2009, Analysis of financial returns and risks of implementing RFID for supply chains. In J. Wang (Ed.), Innovations in Supply Chain Management for Information Systems: Novel Approaches. Hershey, PA: IGI Global.
2. Galambosi A., Duckstein, L., Ozelkan, E.C. and, Bogardi, I., 1998, A fuzzy rule-based model to link circulation patterns, ENSO, and extreme precipitation, In: Haimes, Y.Y., Moser, D., Stakhiv E.Z. (Eds). Risk-based Decision Making in Water Resources, vol. VIII, ASCE Press 0-7844-0347-3, Reston, VA, 83-103.

Special Issues

1. Ozelkan, E.C., A. Ali, and M.D. Sarder, Guest Editors for a Special Issue on "Case Studies in Lean Enterprise Transformation", Vol. 4, No. 2, Journal of Enterprise Transformation, 2014 (in-press).
2. Ozelkan, E.C., A. Ali, and M.D. Sarder, Guest Editors for a Special Issue on "Lean Enterprise Transformation", Vol. 3, No. 3, Journal of Enterprise Transformation, July-September, 2013.

Working Papers/Technical Reports

1. Ozelkan, E. C., P. S. Aponte, J. Grai, E. Demirel, 2009, Economic Impact Analysis for the Motor Vehicle Industry in NC and the Greater Charlotte Region, Report prepared for Centralina Council of Governments & Centralina Economic Development Commission, Center for Lean Logistics and Engineered Systems, University of North Carolina at Charlotte, June 2009.
2. Ozelkan, E. C., B. Iskit, S. P. Hair, P. S. Aponte, C. Sharp, E. Demirel, J. Zhang, 2009, Characterization of the Motor Vehicle Industry in the Greater Charlotte Region through Data Mining and an Industry Survey Analysis, Report prepared for Centralina Council of Governments & Centralina Economic Development Commission, Center for Lean Logistics and Engineered Systems, University of North Carolina at Charlotte, June 2009.
3. Ozelkan, E.C., S. P. Hair, P. S. Aponte, I. C. Yagci, J. Zhang, J. Shams, 2009, Benchmarking Analysis for the Motor Vehicle Industry, Report prepared for Centralina Council of Governments & Centralina Economic Development Commission, Center for Lean Logistics and Engineered Systems, University of North Carolina at Charlotte, May 2009.
4. Ozelkan, E. C., 1997, Arizona Water Use and Management, United Nations Educational, Scientific, and Cultural Organization (UNESCO) Report, April.
5. Ozelkan, E. C., 1996, Test Wafer Opportunities for Cost Reduction, Tefen USA, R&D Technical Report, May 96.
6. Ozelkan, E. C., A. Galambosi, L. Duckstein, and A. Bardossy, 1994, Analysis of Large-Scale Atmospheric Circulation Patterns Using a Fuzzy Classification Scheme: an Arizona Case Study, Working Paper, #94-4,Systems and Industrial Engineering Department, The University of Arizona, March 2.
7. Ozelkan, E. C., F. Ni, K. Hirschboeck, and L. Duckstein, 1994, Relationship Between Monthly Atmospheric Circulation Patterns and Extreme Precipitation, Working Paper, #94-4, Systems and Industrial Engineering Department, The University of Arizona, March 2.
8. Ozelkan, E. C., 1992, A Mathematical Model for Overland Flow Using Fuzzy Rules, Report to Hydrology and Water Management Institute, University of Karlsruhe, Karlsruhe, Germany, June.
9. Ozelkan, E. C., S. F. Thomaz, and C. S. Jesus, 1990, Determination of Centerline Velocity Decay of Jets and Plumes, Stagiaire Report 1990-28/EA, Von Karman Institute for Fluid Dynamics, Rhode Saint Genese, Belgium, September.

RESEARCH & EDUCATIONAL FUNDING ACTIVITIES

Funded Grants

- Hunoval Green Belt Program – Phase II, PI: Ertunga Ozelkan, Co-PI: S. Gary Teng, Company: Hunoval Law Firm, Amount: $79,988, 7/1/14-6/30/16.
- Hunoval Green Belt Program, PI: Ertunga Ozelkan, Co-PI: S. Gary Teng, Company: Hunoval Law Firm, Amount: $99,928, 10/8/12-8/31/14.
- Analysis of Testing Techniques for Electrical Connections, PI: Ertunga Ozelkan, Agency: EPRI, Amount: $15,276, 5/15/11-10/31/11.
- Phase-I: Characterizing the Automotive and Motor-sports Industry Supply Chain in the Greater Charlotte Region of Carolinas, PI: E. C. Ozelkan, Centralina Council of Governments and Centralina Economic Development Division, $20,000, 5/27/2008 – 3/31/2009
- Phase-II: Characterizing the Automotive and Motor-sports Industry Supply Chain in the Greater Charlotte Region of Carolinas, PI: E. C. Ozelkan, Centralina Council of

Governments and Centralina Economic Development Division, $13,300, 4/1/2009 – 8/31/2009

- Phase I: E-Learning/Online Program Proposal: Master of Science in Engineering Management – Online, PI: E. C. Ozelkan, Co-PI: S. G. Teng, UNC General Administration, $100,000, 4/15/2008 – 12/31/2008
- Phase II: E-Learning/Online Program Proposal: Master of Science in Engineering Management – Online, PI: E. C. Ozelkan, Co-PI: S. G. Teng, UNC General Administration, $91,674, 1/1/2009 – 6/30/2010 (approved proposal - funding was frozen due to GA budget freeze)
- The Lean Wake-up Call in Pass & Seymour/legrand, Development of Lean Process Design Case Studies, PI: E. C. Ozelkan, sub-contract to NSF CCLI Phase 2 grant (award number 0618669) involving Worcester Polytechnic Institute (WPI), Missouri University of Science and Technology, Merrimack College, and Time Wise Management Systems (TWMS), $5,000, 6/11/08 – 5/31/09
- Supply Chain Management Certificate Workshop, PI: E. C. Ozelkan, Co-PIs: S. G. Teng, Y. Sireli, Tyco/Scott Health and Safety, $17,280, 5/1/06-8/31/06.
- Supply Chain Management Workshop, PI: E. C. Ozelkan, Center for Intelligent Supply Networks, $10,500, 9/10/04 – 10/23/04.
- Supply Chain Management Workshop, PI: E. C. Ozelkan, Center for Intelligent Supply Networks, $6,500, 1/14/05 – 2/26/05.

Grant Proposals Under Review

- NCMEP - UNC Charlotte 2015-2016 Program, PI: Ertunga Ozelkan, Co-PI: S. Gary Teng, NIST-MEP, Amount: $50,000, 7/1/15-6/30/16.
- Hunoval Leadership Program, PI: Ertunga Ozelkan, Company: Hunoval Law Firm, Amount: $15,992, 6/1/14-7/31/15.

Grant Proposals Under Preparation

- Andes –UNC Charlotte Engineering Management Summer Program, PI: Ertunga Ozelkan, University of Andes, Amount: $36,852, 4/1/15-6/30/15.

Other Funding:

- Supply Chain Management Professional Certificate Program, E. C. Ozelkan, Paragon Metals Inc., $4,200, May-August 2006.

Sponsored Research Projects Without Funding

- Improving Glaucoma After-Care and Compliance Process, Sponsored by the Veterans Affairs Medical Center in Salisbury. Project Collaborators: Dr. Gary Teng and Dr. Charles Davis, OD MPH MHA, Assistant Chief, Optometry Service, 2/15/15-12/31/15.
- Environmentally Preferable Purchasing, Sponsored by the City of Charlotte, Co-PI, Collaborative work with the Wake Forest University. This project was completed as a community service without any funding. It resulted in a MS Thesis and is expected to result in one or two journal publications, 1/1/2009-5/1/2009.
- Implementation of Time Wise Management Systems (TWMS) Supply Chain Simulation at UNC Charlotte's Systems Engineering and Engineering Management Program, Sponsored by the NSF CCLI Phase 2 grant (award number 0618669) involving Worcester Polytechnic

Institute (WPI), Missouri University of Science and Technology, Merrimack College, and TWMS, 6/11/2008 – 5/31/2009, a travel grant of $500 was granted to attend to a workshop at WPI TWMS simulation training, also the simulation kit that is valued around $5,000 has been received as part of this project

- Lean Case Study and Simulation Project, Sponsored by American Society for Quality (ASQ), Pass & Seymour/legrand and Johnson Lean Enterprise Consultancy. This collaborative project aimed at developing an interactive manual simulation case study for teaching lean system principles. This project was completed as a community service. While no funding was received several publications resulted from this study. 09/15/2005 – 04/17/2006.

TEACHING ACCOMPLISHMENTS

Courses Taught

UNC Charlotte	2004 – Present

Graduate Level

* Lean Supply Networks (Fall 2005, Spring 2007, Summer 2014)
* Lean Six Sigma Practice and Management (Summer 2014, co-developed and co-delivered with Dr. Jonathan Mayhorn)
* Industry and Technology Management Seminar (Fall 2012, Spring 2013, Fall 2013, Spring 2014, Fall 2014)
* Lean Practice and Management (Spring 2008, Fall 2009, Summer 2012, Summer 2013)
* Systems Optimization (Fall 2004, Spring 2006, Fall 2010, Spring 2012)
* Decision Analysis (Spring 2005, Fall 2006, Fall 2008, Spring 2010, Fall 2011)
* Designed Experimentation (Fall 2007, Spring 2009, Summer 2011)
* Operations Management (Spring, 2007-Taiwan, Summer 2011,Summer 2012 -Hong Kong, International Executive MBA Program)
* Designing and Managing the Supply Chain (Spring 2004)

Undergraduate Level

* Senior Design (Fall 2012, Spring 2013, Fall 2013, Spring 2014)
* Network Modeling and Analysis (Spring 2011, Spring 2012)
* Experimental Design (Spring 2011)
* Decision and Risk Analysis (Fall 2008, Fall 2010, Fall 2011)
* Introduction to Engineering Practices and Principles II (Spring 2009 co-developed and co-delivered with Dr. Churlzu Lim, Spring 2010)
* Systems Design and Deployment (Fall 2009)
* Production Control Systems (Spring 2007-08)
* Lean Manufacturing Systems (Fall 2005)
* How Globalization Works: Supply Chain Management (Summer 2005, Spring 2006, Intercultural Programs)

Executive Level

* Supply Chain Management Professional Certificate Program, (Summer 2006, Center for Lean Logistics and Engineered Systems)

Wake Forest University	2012

* Project Management (Summer 2012, Graduate MBA Program)

UT Dallas	2003 – 2005

* Industrial Applications in Supply Chains (Summer 2003, Graduate)
* Operations Research (Spring and Fall 2003, Graduate)
* Production/Operations Management (Spring, Summer and Fall 2003, Undergraduate)
* Professional Certificate in Supply Chain Management Program, Center for Intelligent Supply Networks (C4ISN) at UT Dallas (Summer and Fall 2004, Spring 2005, Executive)

i2 Technologies, Education Services	1999-2001

* TradeMatrix Marketplace Solutions (Three classes in Seoul, Taipei and Melbourne)
* Supply Chain Collaboration Planner (Numerous classes in i2 Headquarters, Las Colinas, TX)
* Supply Chain Demand Fulfillment (Private training sessions for Fujitsu in Tokyo-Japan, Nokia, in Salo-Finland; Texas Instruments, in Richardson-TX and Xircom, in LA, CA, plus numerous classes in i2 Headquarters in Las Colinas, TX and Atlanta, GA)
* Supply Chain Master Planning (Private training for IBM, SSD San Jose, CA, plus a training class at i2 Headquarters in Las Colinas)

Teaching Related Awards:

- IIE Lean Division Excellence in Teaching Award, Institute for Industrial Engineers, 2006
- Outstanding Teaching Award, Center for Intelligent Supply Networks (C4ISN)-University of Texas at Dallas, Fall 2004, for contributions in the Professional Supply Chain Management Program
- Top Gun Award, i2 Technologies Education Services, 2000, One of the three employees to receive the award for outstanding performance

STUDENTS ADVISED

Undergraduate Students:

- Systems Engineering Advising
  - Currently assigned as a faculty advisor to 14 BSSE students.
  - Provided first-time advising to all incoming students as the Undergraduate Program Director (2012-13)
  - Have been advising BSSE students on an as-needed basis as the Interim Chair (2013-present)
  - Have also advised multiple BSSE students as a faculty advisor since the beginning of the BSSE program.
- Senior Design Faculty Mentor
  1. 2014-15 City Inventory Control project
  2. 2013-14 CGI Recycler project
  3. 2012-13 Shaw Piperack project
  4. 2011-12 CGI Interactive Bottle Recycler CGI-BOT1 project
  5. 2011-12 CGI Interactive Bottle Recycler CGI-BOT2 project
  6. 2010-11 GE Optimization of Production Line project
- Summer Research Experience for Undergraduates (REU) Advisor:
  - Jenna Zhang from U. of Virginia (Summer 2008)
  - Jemshaid Shams from U. of Virginia (Summer 2008)

Graduate Students:

- MS General Advising
    a. Currently assigned as a faculty advisor to 10 MSEM students.
    b. Advised 18 MSEM students in Fall 2014 and 24 MSEM students in Spring 2014
    c. Advised all MSEM students as the Graduate Program Director (Fall 2012-Fall 2013)
    d. Have been advising MSEM students on an as-needed basis as the Interim Chair (2013-present)

- MS Thesis Advisor/Committee Member:
    - Jesse Stephens, 2013-2015, MS in Engineering Management, (Advisor), Thesis: "A Life Cycle Analysis Approach for Making Sustainable Fiber Optic Purchasing Decisions in the Telecommunication Industry"
    - Johanna Ficatier, 2014-2016, MS in Engineering Management, (Advisor), Thesis: "Improving Glaucoma After-Care and Compliance Process using a Lean Six Sigma Approach"
    - Arun Kottayil, 2014, MS in Engineering Management, (Advisor), Thesis: "Design of Lean Six Sigma Simulation Games for Online Learning"
    - Varun Anand Harihara, 2014-2015, MS in Engineering Management, (Advisor), Thesis: "Innovative Applications of Lean Six Sigma Principles in Emerging Industries"
    - Sandeep Krishnakumar, 2015, MS in Engineering Management, (Advisor), Thesis: "Design of Online Simulation Games for Lean Six Sigma"
    - Edward Neimaster, MS in Mechanical Engineering, Spring 2012 (Committee Member), Thesis: "Low Energy Commercial Buildings: Application of Fuel Cell Combined Heat and Power Systems and Phase Change Materials."
    - Vyahriti Joshi, MS in Engineering Management, Spring 2011 (Committee Member), Thesis: "A Journey from Fast-track to Smart-track Process, Emergency Department Process Improvement"
    - Shaun Davis, MS in Engineering Management, 2009- 2010 (Advisor), Thesis: "Investigation into Possible Sources of Within Test Variability for 4 inch and 6 inch Diameter Concrete Cylinder Sample Molds."
    - Jason M. Grai, MS in Engineering Management, 2007- 2008 (Advisor), Thesis: "The Characterization and Impact of the Automotive and Motorsport Supply Chain in North Carolina and the Greater Charlotte Region"
    - Carl Whitesel, MS in Engineering Management, Spring 2007 (Committee Member), Thesis: "3PL Evaluation Model to Determine Process Outsourcing Potential"
    - Martin Best, MS in Electrical and Computer Engineering, Spring 2007 (Committee Member)

Note: In the Engineering Management Graduate Program an MS thesis is optional. Many of the students take the non-thesis option.

- PhD Advisor/Committee Member:
    - Edil Demirel, 2010-2014, Ph.D. in Infrastructure and Environmental Systems (Co-Advisor with Dr. Lim), Dissertation: "Flexible Planning Methods and Procedures with Flexibility Requirements Profile"
    - Benjamin Futrell, 2012-2015, PhD Student in Infrastructure and Env. Systems (Co-Advisor with Prof. Dale Brentrup), Dissertation: "Bi-objective Optimization of Building Enclosure Design for Thermal and Lighting Performance"

- Ziaul Haq Adnan, 2014-2017, Ph.D. Student in Infrastructure and Environmental Systems (Advisor). Dissertation: “Reverse Bullwhip Effect in Pricing in varying Supply Chain Structures”
- Abdollah Mohammadi, 2014-2017, Ph.D. Student in Infrastructure and Environmental Systems (Advisor). Dissertation: “Optimal Group Buying”
- Douglas W. Armstrong, 2009-2013, Ph.D. Student in Infrastructure and Environmental Systems, (Advisor), Dissertation: TBD
- Dongwook Kim, 2009-2014, PhD Student, Infrastructure and Env. Systems (Committee Member), Dissertation: “Model Development and System Optimization to Minimize Greenhouse Gas Emissions from Wastewater Treatment Plants”
- Okan Pala, 2012-2014, PhD Student, Computing & Information Technology (Graduate Faculty Representative), Dissertation: “Decision Support for Critical Infrastructure Recovery”
- Sanusi Olanrewaju, 2011-2013, PhD Student, Infrastructure and Env. Systems (Committee Member), Dissertation: “Geopolymerization of fly ash”
- Jaydeep Karandikar, 2012-2014, PhD Student, Mechanical Engineering & Engineering Science (Committee Member), Dissertation: “The Fundamental Application of Decision Analysis to Manufacturing”
- Xun Li, 2013-2014, PhD Student, Computing and Information Systems (Graduate Faculty Representative), Dissertation: “Developing and Validating Joint Dynamic Ambulance Relocation and Flexible Dispatching Strategies: a Simulation-Optimization Approach”
- Sanjaya Mayadunne, 2013-2014, PhD Student, Computing and Information Systems (Graduate Faculty Representative), Dissertation: “Competitive Store Closing During an Economic Downturn: A Mathematical Programming Approach”
- Vasishta Ganguly, 2013-2014, PhD Student, Mechanical Engineering and Engineering Science (Committee Member), Dissertation: “Characterization of the dynamic performance of machine spindles”

Note: SEEM Department does not have a Ph.D. Program. SEEM Faculty participates in the interdisciplinary Infrastructure and Environmental Systems Ph.D. program.

- Individual Study
  - Ozkan Ozturk, Ph.D. in Mechanical Engineering, Topic: Optimization of the Broaching Process – (Spring 2005, EMGT 6890 O03). This study resulted in the following publications
    i. Ozelkan E. C., O. Ozturk, E. Budak, 2010, Identifying Parameters of a Broaching Design Using Non-Linear Optimization, International Journal of Modelling, Identification and Control, 11 (3).
    ii. Ozelkan E. C., O. Ozturk, E. Budak, Optimization of Broaching Design, Proceedings of the IIE Research Conference (IERC), Nashville, TN, May 19-23, 2007.
  - Shilpha Mathew, MS in Engineering Management, Topic 1: Supply Chain Management (Spring 2005, EMGT 6890 O03), Topic 2: Case Study Development: End-to-End Supply Chain Management at the TACEX Corporation (Summer 2005, EMGT 6890 B01)
  - Shyn Thomas, MS in Engineering Management, , Topic 1: Supply Chain Management (Spring 2005, EMGT 6890 O03), Topic 2: Case Study Development: End-to-End Supply Chain Management at the TACEX Corporation (Summer 2005, EMGT 6890 B01)

- Jason Grai, MS in Engineering Management, Topic: Industrial Applications in Supply Chains (Summer 2008, EMGT 6890 O03)

- Other Student Advising
  - Carl Whitesel, MS in Engineering Management, further research in the "Lean Supply Networks" class project resulted in the following publication
    i. Whitesel, C. and E. C. Ozelkan, Lean Monitoring of Power to Reduce Waste, Proceedings of the 2008 Industrial Engineering Research Conference, Vancouver, Canada, May 17-21, 2008.
  - Alfred D'Ambrosio, Engineering Management, further research on "Natural Gas" resulted in the following publications:
    i. Ozelkan, E. C., A. D'Ambrosio, and S. G. Teng, 2008, Optimizing Liquefied Natural Gas Terminal Design for Effective Supply Chain Operations, International Journal of Production Economics, 111 (2), 529-542.
    ii. D'Ambrosio, A., E. C. Ozelkan, and S. G. Teng. Impact of Supply Chain Capabilities on Liquefied Natural Gas Terminal Design. Proceedings of the Global Institute for Energy and Environmental Systems (GIEES) Annual Conference, July, 24-30, 2005.
    iii. D'Ambrosio, A., E. C. Ozelkan, and S. G. Teng. Commodity Price Risk Management in the Natural Gas Supply Chain. Proceedings of the Global Institute for Energy and Environmental Systems (GIEES) Annual Conference, July 24-30, 2005.
  - Maria Munoz and Sriram Mahadevan, MS in Engineering Management, further research in the "Lean Supply Networks" class project resulted in the following publication
    i. Ozelkan, E. C., T. Sireli, M. P. Munoz, S. Mahadevan, A Decision Model to Analyze Costs and Benefits of RFID for Superior Supply Chain Performance, Proceedings of the PICMET Conference: Technology Management for the Global Future, Istanbul, Turkey, July 8-13, 2006.

SERVICE ACCOMPLISHMENTS

UNIVERSITY SERVICES

Systems Engineering and Engineering Management Program (SEEM):

- Leading the University of Andes, Chile Summer Graduate Engineering Management Program, 2012-2015
- Strategic Planning Committee Member, 2014-2015
- Led renovation of SEEM Departmental Offices and Workroom, 2014
- Led renovation of SEEM Graduate Student Offices, 2014
- Led establishment of SEEM SMART (Systems Modeling Analytics Research and Teaching) Lab, 2014
- Led establishment of SEEM Lean Logistics Lab, 2014
- Led establishment of SEEM Experiential Learning Lab, 2013
- Led renovation of SEEM Mosaic Lab, 2013
- Led the establishment of the Graduate Certificate Programs in Energy Analytics, Lean Six Sigma, Logistics and Supply Chains and Systems Analytics, 2013-2014
- Participated in the US News Online Graduate Engineering Program Ranking Survey, which resulted in a rank of 23 out of 75 institutions for the College of Engineering and MSEM Online Program in 2014 and rank of 29 in 2015

- Led the revision of the MS in Engineering Management curriculum and structure to create concentrations on Energy Systems, Lean Six Sigma, Logistics and Supply Chains and Systems Analytics, 2013
- Led the revision of the BS in Systems Engineering curriculum to establish new concentrations on Energy Systems and Engineering management and to align the structure with ABET requirements with the help of Dr. Lim, 2013
- Led the establishment of the energy concentrations under the BSSE and MSEM programs with the help of Dr. Chowdhury, 2013
- Conducted FAIT Meeting in May 2013
- Conducted Advisory Board Meetings in Fall 2012, Summer 2013, Fall of 2013, Summer 2014, Fall 2014
- Led the revision of the SEEM Web-site and transition to Drupal, Summer 2013
- SACS: Led the SACS reporting, 2013
- ABET: Led the ABET Response Effort, 2012-2013
- Created and maintained the Systems Engineering Continuous Improvement Manual, 2012-2014
- Participated in Systems Engineering FAIT Meetings, 2011-2014
- Systems Engineering Representative for the Freshman Engineering FAIT, 2012
- Delivered presentations on Systems Engineering at the Discover Engineering Events, 2012-2013.
- Member of the EPIC Faculty Search Committee for "Energy Markets and Systems Engineering" position, 2012
- Member of the EPIC Faculty Search Committee for "Quality Assurance, Standards and Regulatory Engineering" position SEEM Program Promotion & Tenure Committee Member - 2011
- Led the establishment of the new Online MS Degree Program in Engineering Management, 2009
- Chair of the Systems Engineering Faculty Search Committee, Fall 2008
- Chaired the curriculum committee for the development of BS in Systems Engineering Program, 2006-2007
- Chair of the Curriculum Committee for the EMGT Program, 2005-2010
- SEEM Program Faculty Search Committee Member, Spring 2006
- SEEM Program Strategic Planning Committee Member, Summer 2006
- Web Administrator for the SEEM Program, 2004-2007
- Organized numerous Information Sessions to recruit students for the MSEM program, 2004-Present
- Represented SEEM department in multiple Explore and SOAR events, 2004-2013
- Chair of the Member Selection Committee for the SEEM Program, Spring 2005.

College of Engineering:

- SEEM Representative in the COE Engineering Graduate Committee, 2013-2014
- SEEM Representative in the COE Senior Design Committee, 2012 – 2014
- SEEM Representative in the COE Undergraduate Administrative Committee, 2012-2013
- President of the College of Engineering Faculty Organization (CEFO), 2010-2011
- President Elect of the College of Engineering Faculty Organization (CEFO), 2009-2010
- Secretary of the College of Engineering Faculty Organization (CEFO), 2007-2009
- EMGT Program Representative for the College of Engineering Computing Facilities Advisory Committee (CFAC), 2006 - 2007

- Helped with the establishment of the Systems Engineering Mosaic Lab

University Level:

- Strategic Planning Committee Member for the Distance Education Programs, 2014-2015.
- Alternate for the Faculty Advisory Summer Sessions Committee Representative, 2011-2013
- Alternate for the Faculty Committee on General Education, 2007-2009

Center for Lean Logistics & Engineered Systems (CLLES):

- Co-founder and Associate Director of CLLES
- Program Coordinator for the Lean Six Sigma Certificate Programs
- Established a contractual agreement to coordinate industry training with UNC Charlotte Continuing Education Program
- Program Coordinator for the Supply Chain Management (SCM) Professional Certificate Program
- Designed the Supply Chain Management (SCM) Professional Certificate Program
- Designed the Lean Six Sigma Belt Certificate Programs
- Organized plant/site tours at various companies including Pass & Seymour/legrand Manufacturing facility, Harris-Teeter's Indian Trail Distribution, and Carrier Corporation.
- Web Designer for CLLES, 2005-2014
- Web Administrator for CLLES, 2005-2012

Collaborations with Other Academic Programs:

- Delivered lecture for the International Programs on "Lean Six Sigma System Design and Deployment" for Japanese STEM Majors from Sophia University visiting UNC Charlotte, Mar 18, 2013.
- Delivered courses on Operations Management for the International Executive MBA Program in Taiwan in January 2007, in Hong Kong in 2011 and 2012.
- Delivered a Ph.D. Seminar for the Infrastructure and Environmental Systems Ph.D. Program titled "Optimizing Liquefied Natural Gas Terminal Design for Effective Supply Chain Operations", on September 25, 2007.
- Delivered short courses for UNCC Intercultural Programs on "How Globalization Works: Supply Chain Management" as part of the 'Engineering Design in a Global Economy" program for international students from KNU University, South Korea during July 2005 and January 2006.
- Delivered a presentation on Engineering Management Program during the "Panel Discussion on Graduate Programs, Requirements, and the Application Process" as part of the "Engineering Design in a Global Economy" program for international students from KNU University, South Korea on January 10, 2006.

Other University Services

- Faculty Advisor for Student Associations
  - Turkish Student Association, 2008
  - Turkic Society and Children Club, 2009 - 2013
- UNCC Faculty/Staff Volleyball Activity Organizer
  - Created a regular faculty/staff volleyball activity at the university in 2004

- Captain of the faculty/staff team that finished second in the UNCC 2005 Intramurals Tournament and that advanced to the semifinals in the UNCC 2004 Intramurals Tournament.

COMMUNITY & PROFESSIONAL SERVICES

Academic Journals:

- Guest Editor
  - Journal of Enterprise Transformation, 2013-2014
- Member of the Editorial Review Board for the
  - International Journal of Information Systems and Supply Chain Management, 2007-2009
  - International Journal of Information and Decision Sciences, 2008-2010
- Member of the Editorial Advisory Board (EAB) of the
  - Advances in Information Systems and Supply Chain Management (AISSCM) Book Series
- Reviewer for a number of journals and conferences including,
  - European Journal of Operational Research
  - International Journal of Production Economics
  - International Journal of Information Systems and Supply Chain Management
  - International Journal of Information and Decision Sciences
  - International Journal of Healthcare Technology and Management
  - SIAM Journal on Control and Optimization
  - Journal of Intelligent Manufacturing
  - IEEE Control Systems Society Conference Management System
  - IEEE Transactions on Systems, Man and Cybernetics
  - Applied Mathematics and Optimization
  - Journal of Environmental Management
  - Risk Analysis
  - Journal of Applied Meteorology
  - Hydrological Sciences Journal
  - IIE Industrial Engineering Research Conferences, 2006, 2008, 2009, 2012, 2014, 2015.
  - IIE Engineering Lean Six Sigma Conferences, 2013, 2014.
  - American Society of Engineering Education Conferences, 2006, 2007, 2008, 2009, 2011, 2012.
  - 34th, 35th and 36th IEEE Conferences on Decision and Control, 1995, 1996, and 1997
  - American Control Conferences, 1995, 1997

Academic Conferences:

- Conference/Program/Track Organizer
  - Hosting Committee Co-Chair for the American Society of Engineering Management (ASEM) 2016 International Conference
  - Conference Chair for the 2016 IIE Engineering Lean & Six Sigma Conference.
  - Incoming Conference Chair for the 2015 IIE Engineering Lean & Six Sigma Conference, Atlanta, GA, September 30-Oct 2, 2015.
  - Organization Committee Member for the 2014 IIE Engineering Lean & Six Sigma Conference, Orlando, FL, September 29 – October 2, 2014.

- Organization Committee Member for the 2013 IIE Engineering Lean & Six Sigma Conference, Atlanta, GA, September 24, 2013.
- Chair of the Lean Energy track for IIE Engineering Lean & Six Sigma Conference, Atlanta, GA, September 24, 2013.
- Chair of the Lean Business Law track for IIE Engineering Lean & Six Sigma Conference, Atlanta, GA, September 24, 2013.
- Co-Chair of the Interactive Sessions for INFORMS 2011 Annual Conference, Charlotte, NC, November 13-16, 2011
- Organization Committee Member for the 2011 Annual IIE Engineering Lean & Six Sigma Conference, Atlanta, GA, September 12-14, 2011.
- Chair of the IIE Lean Simulation Track at the 2011 Annual IIE Engineering Lean & Six Sigma Conference, Atlanta, GA, September 12-14, 2011.
- Co-Chair of the IIE Lean Track at the 2009 Annual IERC Conference, Miami, FL, May 30-June 3, 2009.
- Co-Chair of the IIE Lean Track at the 2008 Annual IERC Conference, Vancouver, Canada, May 17-21, 2008.
- Program Chair of the ASEE Engineering Management Division, at the 2009 ASEE Annual Conference, in Austin, TX, June 14-17, 2009.

- Session Organizer
  - Organized an invited session on “Emerging Topics in Lean” under the Lean Systems Track at the 2014 Industrial and Systems Engineering Research Conference, Montreal, Canada, May 31-June 3, 2014
  - Organized a cluster of sessions named “Impact of RFID on Supply Chain Operations” for the 18th POMS annual conference in Dallas on May 4-7, 2007.
  - Organized an invited session named “Production Plan Stability” under the Production Planning and Scheduling Track at the 2009 Annual IERC Conference, Miami, FL, June 2, 2009.
  - Helped organizing the session named “Managing Supply Chains with RFID” for the 19th POMS annual conference in La Jolla, CA on May 9-12, 2007
- Session Chair/Moderator for a number of conferences including
  - Session chair for the Manufacturing and Healthcare Sessions for IIE Engineering Lean & Six Sigma Conference, Orlando, FL, September 29-October 2, 2014.
  - Session chair of the Lean Education Session for IIE Engineering Lean & Six Sigma Conference, Atlanta, GA, September 24, 2013.
  - Session Chair for the IERC Production Planning and Scheduling Session, May 21, 2013, Industrial Engineering Research Conference, San Juan, Puerto Rico.
  - Session Chair for the IERC Multi-Objective and Multi-criteria Modeling in Energy Systems, May 22, 2012, Orlando, FL.
  - Frontiers in Engineering Management Education, June 29, 2011, American Society of Engineering Education Conference, Vancouver, CA.
  - IERC Inventory Optimization and Control-I, May 21-25, 2011, Industrial Engineering Research Conference, Reno, NV..
  - IERC Simulation and Modeling, May 18, 2005, Industrial Engineering Research Conference, Atlanta, GA.
  - IERC27 Logistics & Inventory - 13 - Design and Analysis of Supply Chains, May 22, 2006, Industrial Engineering Research Conference, Orlando, FL.
  - IERC09 Engineering Education - 8 - Innovative Classroom Tools and Technology for IE-B, May 20, 2006, Industrial Engineering Research Conference, Orlando, FL.
  - ASEE 2142: EM in a Global Environment, June 20, 2006, ASEE Annual Conference, Chicago IL.

- SE-03: Emerging Technologies - 1, July 9, 2006, PICMET Annual Conference, Istanbul, Turkey.
- POMS RFID-II, POMS annual conference in Dallas on May 4-7, 2007
- New Trends in Engineering Education, June 23, 2008, ASEE Annual Conference, Pittsburgh, PA. 2008 Annual IERC Conference, Vancouver, Canada,. May 18, 2008.
- Pricing and Revenue Management II, INFORMS Conference at Washington DC, Oct 15, 2008.
- Lean Tutorial at the IIE Lean Track at the 2009 Annual IERC Conference, Miami, FL, June 1, 2009.
- ASEE Engineering Management Division Business Meeting, June 22, 2010, ASEE Annual Conference, Louisville, KY.

Professional Societies:

- Board Director, ASEE Systems Engineering Division, 2011-2014
- Board Director, ASEE Engineering Management Division, 2011-2013
- Past Chair of the ASEE Engineering Management Division, 2010-2011
- Chair of the ASEE Engineering Management Division, 2009-2010
- Chair of the ASEE Eng. Mgmt. Division Bernard Sarchet Award Selection Committee, 2010
- Program Chair of the ASEE Engineering Management Division, 2008-2009
- Treasurer for the ASEE Engineering Management Division, 2007-2008
- Secretary/Newsletter Editor for the ASEE Engineer. Management Division, 2006-2007
- Board Director, IIE Lean Division, 2009-2013
- Chair of the IIE Lean Division Teaching Award, 2010
- Member, IIE Lean Division's Lean Teaching Award Selection Sub-Committee, 2012, 2013
- Member, IIE Lean Division's Policy and Procedures Sub-Committee, 2011
- Member of the Advisory Group for the Logistics Alliance of Carolinas sponsored by the Centralina Economic Development Division, Charlotte, NC, 2008-2010
- Judge for the 2013 and 2015 Charlotte Business Journal - Centralina Economic Development Commission Advanced Manufacturing Awards
- Judge for the 2010 and 2011 Centralina Economic Development Commission Advanced Manufacturing Awards
- Board Director, BTF (Bridge to Turkiye Fund), a non-profit organization aimed to help disadvantaged kids' education, 2008-2010
- Board Director, American-Turkish Association of North Carolina at Charlotte, a non-profit organization aimed to conduct cultural and social activities- 2011, 2014
- President of the American-Turkish Association of North Carolina at Charlotte, 2010
- Delivered a presentation on the "Survival Strategies for the Automotive Suppliers" at the Manufacturer's Forum for Automotive Suppliers sponsored by Centralina Economic Development Division, Concord, NC, March 11, 2009.
- Panelist at the Council of Supply Chain Management Professionals (CSCMP) Meeting on Future State, How the Carolinas are Uniquely Positioned for Success in the Global Supply Chain, Charlotte, NC, September 18, 2007
- Collaborated with American Society for Quality (ASQ), Pass & Seymour/legrand and Johnson Lean Enterprise Consultancy to jointly complete a "Lean Case Study and Simulation Project" and to deliver a presentation on April 17, 2006 during an ASQ local chapter meeting at UNCC.
- Organized the "Lean Day and Social" event at UNC Charlotte campus in collaboration with the Society of Manufacturing Engineers (SME), 02/22/2005.

- Reviewer for the Research Competitiveness Subprogram (RCS) of the Louisiana Board of Regents Support Fund Research and Development Program, 2006

Professional Society Affiliations:

- Institute for Operations Research and the Management Sciences (INFORMS)
- Institute for Industrial Engineers (IIE)
- American Society for Engineering Education (ASEE)
- American Society of Engineering Management (ASEM)
- Production and Operations Management Society (POMS), 2004-2008
- Sloan Industry Studies, 2007-2010

HONORS & AWARDS

- Best Paper Award, 2014 IIE Industrial and Systems Engineering Research Conference, Lean Systems Track for the co-authored paper titled "Effect of Production Plan Stability on Lean Systems Operations", Montreal, Canada, May 31-June 3, 2014.
- Best Paper Competition Second Place Award, 2013 IIE Engineering Lean Six Sigma Conference for the co-authored paper titled "Lean Six Sigma to Reduce Lead Times in Legal Business Processes", Atlanta, GA on Sept 24, 2013.
- Certificate of Recognition, Institute of Industrial Engineering Lean Division, May 20, 2013, in recognition of dedicated service in the board of directors.
- Merl Baker Award for Outstanding Service and Contribution to Engineering Management Division, American Society of Engineering Education, June 28, 2011.
- Certificate of Recognition from Institute for Operations Research and the Management Sciences for contributions for the organization of the Interactive Sessions for INFORMS 2011 Annual Conference, Charlotte, NC, November 13-16, 2011.
- Certificate of Appreciation to the Founding President, American-Turkish Association of North Carolina – Charlotte Board of Directors, February 26, 2011.
- The Bridging Humanity Citation for Outstanding Service Promoting Spirit of Global Friendship, Bridge to Turkiye Fund, October, 2010.
- IIE Lean Division Excellence in Teaching Award, Institute for Industrial Engineers, 2006, for the nominated EMGT 6090 O03 Lean Supply Networks course.
- Outstanding Teaching Award, Center for Intelligent Supply Networks University of Texas at Dallas, Fall 2004, for contributions in the Professional Supply Chain Management Program
- Top Gun Award, i2 Technologies Education Services, 2000, One of the three employees to receive the award for outstanding performance
- Joint Development Award, Compaq Computers, 1999, for meeting Compaq's supply chain software development needs.
- Tucson Mayor's Award - Honorary Citizen of Tucson, Mayor of Tucson, Arizona, 1996, for contributions in cultural exchange.
- Fellowship / Tuition/Graduate Scholarship, The University of Arizona, 1995-1997, Limited awards to students with superior academic record.
- Scholarship, Von Karman Institute for Fluid Dynamics, Brussels, Belgium, 1990, Limited awards to students for scientific research and training.
- Scholarship, TUBITAK: The Scientific & Technologic Research Council of Turkey, 1985, one of the three students selected from the Tarsus American Highschool for the Mathematics Olympics summer preparation courses in Gokceada, Turkey.