

Curriculum Vitae

Lisa Ann Zidek

Associate Dean
Florida Gulf Coast University
U.A. Whitaker College of Engineering
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Education

- Sept. 1993 to August 2002
PhD in Industrial Engineering with a specialization in Health Systems Management
Concurrently earned M.S. Industrial Engineering
University of Wisconsin - Madison
- Sept. 1990 to May 1992
M.S. Mechanical Engineering
Marquette University
- Sept. 1985 to May 1990
B.S. Industrial Engineering
Marquette University

Dissertation

Zidek, L. A. (2004). A first look at home health aide stress.
University of Wisconsin – Madison.

Thesis

Carlson, L. A. (1992). Healthsim: SLAM II User Interface for Modeling Health Care Systems.
Marquette University.

Academic Experience

Florida Gulf Coast University U. A. Whitaker College of Engineering January 2007- present

Associate Dean - July 2013- present

Liaison between Dean and faculty. Oversee, manage and approve all curricular development. Manage academic advising. Develop and manage all college level outreach. Developed reporting system for state-wide metrics specific to the college. Monitor and maintain college and program level data on retention, graduation rates, student progression toward degree and other metrics as necessary to ensure students are progressing in their academic pursuits. Work with Dean for budgetary allocations. Teach Engineering Entrepreneurship, Healthcare Management and other classes as needed.

Successfully submitted RFP for Project Lead the Way (PLTW) Affiliate in the state of Florida. Served as Affiliate Director of PLTW at FGCU (2014-2018). PLTW training session ran in the summer months. The initial program (summer 2014) served approximately 40 teachers. In summer 2016 we trained over 250 teachers. The program has accumulated over \$350,000 in discretionary funds. The program was discontinued in 2018 when PLTW changed their training model.

Developed and implemented College of Engineering Student Ambassador program. Currently serving as coordinator of the Engineering Ambassador program.

Wrote successful proposal to join National Academy of Engineers Grand Challenges Scholars Program. Graduated first 2 FGCU Eagles Grand Challenge Scholars in Fall 2014. Currently serving as director of FGCU Eagles Grand Challenges Scholars Program.

Wrote successful proposal to the Kern Entrepreneurial Engineering Network (KEEN). FGCU is one of only 37 engineering programs (as of 2017) selected to be part of this network.

Working with faculty and administration, developed the U.A. Whitaker College of Engineering graduate program, a Master of Science in Engineering (MSE). The MSE program officially began in Fall 2017.

In addition, I still teach 3-4 classes every year.

Academic Program Director and Associate Professor - January 2007 – July 2013

Wrote bylaws for the U.A. Whitaker College of Engineering Graduate Faculty and for the U.A. Whitaker Peer Review Committee. Assisted with UA Whitaker School of Engineering ABET Self Study for ABET accreditation visit. Oversee all engineering curriculum, including curriculum development and changes. Monitor and maintain all interdisciplinary aspects of the engineering curriculum. Chair multiple committees including curriculum committee, academic dishonesty committee and graduate program committee. Serve as a faculty member for the Bioengineering program, consistently teaching 5-7 classes per academic year in bioengineering and across all engineering disciplines.

**Milwaukee School of Engineering Industrial Engineering - March 1994
December 2006**

**Industrial Engineering Program Director and Associate Professor - December 2002
to Dec 2006**

Responsible for the continuous improvement of the Industrial Engineering program including curriculum, accreditation and faculty assignments. Developed and wrote ABET Assessment Self-Study for the Milwaukee School of Engineering Industrial Engineering program (2006 academic year). Coordinated course work review materials for ABET visit in October 2006. Continue to teach in the program as needed.

Working with the IE faculty, developed a new IE curriculum to meet the institution's requirements that all engineering programs be under 200 credit hours (Dec 2002-Oct 2003). The new program incorporated many new courses desired by the IE Industrial Advisory Committee including a first year course in IE career opportunities and an upper level course in leadership and facilitation. The curriculum had to be fully developed, including course descriptions and outlines and pass the approval process by October 2003 to be in place for the 2003-2004 academic year.

Associate Professor - Sept 2000 to December 2002

Contribute to the Industrial Engineering program as a faculty member through teaching, research and curriculum development.

Developed and wrote ABET Assessment Plan for the Milwaukee School of Engineering Industrial Engineering Program. Also assisted in developing and coordinating course work review for ABET visitation in October 2000.

Chair, Harley Davidson/Lee Georgeson Mechanical Engineering Computer Laboratory Planning committee. Committee responsibilities included selection of computers,

operating systems, networking capabilities, room design and access for new computer laboratory.

Assistant Professor - Sept 1996 to Aug 2000

Contribute to the Industrial Engineering program as a faculty member through teaching, research and curriculum development.

Instructor - March 1994 - Aug 1996

Professional Experience

Consultant, Collier County Blue Ribbon Task Force - August 2010 – February 2011
Provide statistical analysis of emergency response data. The goal of the task force is reduce the overall medical emergency response time in Collier County.

Consultant, Lee County Department of Transportation - December 2009 – May 2010
Consultant on process improvement, efficiency evaluation and applications of lean techniques to non-manufacturing environments.

Consultant, Wilson Doors, Lake Geneva, Wisconsin - June 2006-Aug 2006
Consultant on process improvement, inventory control and six sigma concepts and practices.

Industrial Engineer, Firststar Bank. Aug. 1994 - Dec. 1995

Internal consultant responsible for various projects pertaining to cost reduction in the organization.

Johnson Controls - May 1993 - Aug 1995

Worked extensively in simulation modeling for the research and development group. Performed feasibility study for potential software application with the controls sales department.

Research Assistant - May 1990 - May 1993

Worked for Dr. Kunter Akbay, Marquette University. Assist with research regarding simulation modeling and neural networks.

Association Memberships

American Society for Engineering Education
Engineers Without Borders (past member)
Institute of Industrial Engineers
 April 1, 2005 – April 2006 Vice President of Student Development
 2004 Nominated for IIE Vice President of Student Development
 2003-2004 – Suggested and assisted in the development of an IIE virtual mentor
 program
 2002-2004 – Appointed member of IIE Presidential Membership Commission
 1998-2005 – IIE student organization faculty advisor
National Society of Experiential Education
ABET Program Evaluator since 2004

Director and Boards

Florida Gulf Coast University College of Education Ed Tech Advisory Board (2015 - 2018)
Affiliate Director – Project Lead the Way (2014 - 2018)
Lee County STEM at Work Foundation Board (2014 - 2018)
Collier County National Academy Foundation Advisory Board Member (2014 - present)
Co-Director, Institute for Entrepreneurship (2013 - 2017)

Graduate Students

Advisor

Amundson, Christopher R. "Comparison of Discrete Event System Modeling and Simulation of the Johnson Controls Technical Support Call Center and the Erlang-C Formula" Milwaukee School of Engineering May 2004.

Advisor

Auton, David R. "Review Process Automation for Company Website Content Deployment" Milwaukee School of Engineering May 2002.

Committee Member

Eggebrecht, Rachel L. "Infection Control Enclosure for Use in Construction and Maintenance Activities in Hospitals and Healthcare Facilities" Milwaukee School of Engineering June 2006.

Publications

Zidek, L., Kauanui, S. K., & Haytko, D. L. (2012). Cross-level, cross-disciplinary, cross-cultural collaborations in action: A public service educational initiative integrating health, engineering and entrepreneurship. *Academy of Educational Leadership Journal*, 16(1), 107.

Csavina, K. R., & **Zidek, L.** (2011). A Guatemalan Immersion for Teaching Engineering Design Principles to U. S. High School Students. In *American Society for Engineering Education*. American Society for Engineering Education.

Zidek, L. A. (2010). Using peer review to improve and assess writing. *Journal of Applications and Practices in Engineering Education*, 1(2).

Blanchard, S., O'Neill, R., Sweeney, J., **Zidek, L.**, Komisar, S., & Stoppiello, D. (2010). Re-inventing engineering education one new school at a time. In *American Society for Engineering Education*. American Society for Engineering Education.

Zidek, L. (2009). Service Learning as a Prerequisite to Engineering Entrepreneurship. In *American Society for Engineering Education*. American Society for Engineering Education.

Book Chapters

Yazici, H. J., **Zidek, L. A.**, & Hill, H. S. (2020). A Study of Critical Thinking and Cross-Disciplinary Teamwork in Engineering Education. In *Women in Industrial and Systems Engineering* (pp. 185-196). Springer, Cham.

Zidek, L. (2012). Service-Learning and Entrepreneurship for Engineers. *Service-Learning in the Computer and Information Sciences: Practical Applications in Engineering Education*, 213-242.

Conference Publications

Zidek, L., & Kauanui, S. K. (2014, October). Cross-disciplinary collaboration in entrepreneurship: Engineering and business students really can work together. In *2014 IEEE Frontiers in Education Conference (FIE) Proceedings* (pp. 1-4). IEEE. Madrid, Spain, October 2014.

Kunberger, T., Csavina, K., & **Zidek, L.** (2013). Engineering Summer Camp for High School Students from Underserved Communities. In *2013 ASEE Southeast Section Conference*.

Cookeville, Tennessee, March 2013.

Zidek, L. (2010, October). Engineering Service Learning, Engineering Entrepreneurship and assessment: Building a program that works. In *2010 IEEE Frontiers in Education Conference (FIE)* (pp. T2D-1). IEEE.

Washington DC, October 2010.

Zidek, L. (2009). AC 2009-682: SERVICE LEARNING AS A PREREQUISITE TO ENGINEERING ENTREPRENEURSHIP. *age, 14*, 1.

ASEE Annual Conference, American Society for Engineering Education, Austin, TX,

Zidek, L., Orndoff, C., & Blanchard, S. (2007). AC 2007-542: USING ENTREPRENEURSHIP AND SERVICE-LEARNING TO INCREASE ENGINEERING AWARENESS IN HIGH SCHOOL. *age, 12*, 1.

ASEE Annual Conference, American Society for Engineering Education, Honolulu, HI

Blanchard, S., Egiebor, N., Sweeney, J. D., **Zidek, L.**, Sechrist, C., Hulbert, S., ... & O'Neill, R. (2006, June). Blank slate engineering at Florida Gulf Coast University—Innovative and multidisciplinary from the ground up. In *Proceedings of the 2006 ASEE Annual Conference and Exposition*.

Zidek, L. (2006, October). Work in Progress—Engineering the Facilitative Leader. In *Proceedings. Frontiers in Education. 36th Annual Conference* (pp. 21-22). IEEE.

San Diego, CA.

Akbay, K. S., Ruchti, T. L., & **Carlson (Zidek), L. A.** (1992). Using neural networks for selecting input probability distributions. *Proceedings for ANNIE'92, 1992*.

Conference abstracts with presentations

Yazici, H., St. Hill, H., Zidek, L. “Assessment of Critical Thinking Learning Outcomes in Interdisciplinary Education.” Institute of Industrial Engineering Annual Conference, Anaheim, CA, May 2015.

St. Hill, H., Yazici, H., Zidek, L. “Innovations in Interprofessional Education (IPE): Learning Styles, Critical Thinking and Impact on Education and Practice.” *ASAHP Annual Meeting*, Scottsdale, AZ, October 2015.

St. Hill, H., Yazici, H., Zidek, L. “Interprofessional Education (IPE): Health Professions, Engineering and Operations Management.” *ASAHP Annual Meeting*, Las Vegas, NV, October 2014.

L. Zidek. “Teaching and Assessing Statistics in Bioengineering”. Abstract presented at the 29th Southern Biomedical Engineering Conference (SBEC), Miami FL, May 2013.

Geiger, R.C., J. D. Sweeney, J.H. Torres, K.R. Csavina, and L. Zidek. “Cross Integration of Key Learning Threads in a Bioengineering Curriculum”. Presentation and Poster at the Third Biomedical Engineering Education Summit Meeting, St. Charles, Ill., June, 2008.

D. Sweeney, R.C. Geiger, J.H. Torres, K.R. Csavina, L. Zidek and S.M.

Blanchard. “Cross Integration of Key Learning Concepts in a Bioengineering Curriculum”. Abstract presented at the 2007 Annual Fall Meeting of the Biomedical Engineering Society, Los Angeles, Sept., 2007.

J.D. Sweeney, L. Zidek, C. Sechrist, and S.M. Blanchard. “Design of a Bioengineering Curriculum for the ‘Flat World’ of 2020”. Abstract and education minisymposium presentation with panel discussion at the Annual Fall Meeting of the Biomedical Engineering Society, Chicago, October, 2006.

J.D. Sweeney, R.C. Geiger, J.H. Torres, K.R. Csavina, L. Zidek and S.M.

Blanchard. “Cross Integration of Key Learning Concepts in a Bioengineering Curriculum”. Abstract accepted for presentation at the 2007 Annual Fall Meeting of the BMES, L.A., 2007.

J.D. Sweeney, R.C. Geiger, J.H. Torres, K.R. Csavina, L. Zidek and S.M.

Blanchard. “Cross Integration of Key Learning Concepts in a Bioengineering Curriculum”. Abstract presented at the 2007 Annual Fall Meeting of the Biomedical Engineering Society, Los Angeles, Sept., 2007.

Geiger, R.C., J. D. Sweeney, J.H. Torres, K.R. Csavina, and L. Zidek. “Cross Integration of Key Learning Threads in a Bioengineering Curriculum”. Presentation and Poster at the Third Biomedical Engineering Education Summit Meeting, St. Charles, Ill., June, 2008.

Workshops

S. Kauanui , L. Zidek. “One Class Can Make A difference: Building an Entrepreneurship Program Using a Cross-Disciplinary Collaboration Between Engineering and Business.” USASBE 2014, Tampa, FL.

L. Zidek. “Engineering Service-Learning at Florida Gulf Coast University”. invited workshop presentation at the 2008 Florida Institute on Service Learning & Engaged Scholarship, Orlando, FL, November 2008.

Poster Sessions

Julia Yazici, Lisa Zidek. “Problem/Project Based Learning”. IIE Annual Conference, May 2012, Orlando, FL.

Grants

Submitted Florida Community Grant “Bootcamp for Engineering and Mathematics (BEaM). Submitted July 2019.

Submitted VentureWell grant “E⁴: Early Engagement of Engineers in Entrepreneurship” November 2017 submission. Invited for resubmission in 2019 cycle.

Submitted VentureWell grant “FGCU Interdisciplinary Business Plan Development and Engineering Entrepreneurship Course Improvements.” May 2015 submission with J. Cuiffi and S. Kauanui. Grant not awarded, feedback was very positive, denial based on overall budget.

Received Multidisciplinary Research Initiative Award “Learning Styles and Critical Thinking in an Interdisciplinary Education Initiative” 2014 with H. St. Hill and H. Yazici.

Received GPSA Grant “International Health – Guatemala” 2009-2011 with K. Csavina, T. Ellis and J. Sweeney.

Received Florida Campus Compact grant “Livin’ La Vida Local” 2009 with N. Demers, J. Reah, L. Summers, J. Bradshaw

Received NCIIA grant for “Interdisciplinary Service Learning Entrepreneurship” 2007/2008.

Awards and Nominations

Presidential Award, Best Faculty Poster, Florida Gulf Coast Research Day,

“Relationships between Critical Thinking Skills, Learning Styles and Student Performance Utilizing an Interdisciplinary Case Study” April 2015.

Highest Rated Posters by Academic Area Winner Research Day 2009 – Comparing Client and Faculty Assessments for Engineering Entrepreneurship Project Proposals

Selected to attend the Frontiers of Engineering Education Symposium to be held November 15-18, 2009, at the Hyatt Dulles in Washington, DC.

Received Florida Campus Compact Engaged Scholars award 2009.

April 2004 – received “Making a Difference for Women at MSOE” award from the MSOE Women’s Connections program. The award recipients are nominated and voted upon by MSOE students.

November 2000 - Nominated for Milwaukee Scientists and Engineers Engineer of the Year Under 40, by Milwaukee Senior Chapter of the Institute of Industrial Engineers.