

CURRICULUM VITAE

AHMAD K. M. ELSHENNAWY
Professor and Associate Chair
Department of Industrial Engineering & Management Systems
University of Central Florida
Orlando, Florida 32816 - 2993
(407) 823-5742
E-mail: Ahmad.elshennawy@ucf.edu

EDUCATION

Ph.D. Industrial Engineering, The Pennsylvania State University, 1987.
M.Eng. Industrial Engineering, The Pennsylvania State University, 1982.
MS Production Engineering, Alexandria University, Egypt, 1978.
BS Production Engineering, Alexandria University, Egypt, 1974.

PROFESSIONAL CERTIFICATION

CSSMBB Certified Six Sigma Master Black Belt, The Harrington Institute, USA
CQE Certified Quality Engineer, Certificate No. 8666, American Society for Quality
CRE Certified Reliability Engineer, Certificate No. 2659, American Society for Quality

PERSONAL DATA

Nationality: US Citizen
Married, three children: two sons and one daughter
Enjoys travel, foreign cultures, photography, and reading.

EMPLOYMENT HISTORY

ACADEMIC POSITIONS

Professor, Department of Industrial Engineering and Management Systems, University of Central Florida, Orlando, Florida, 2004 - Present.

Visiting Professor, Department of Industrial and Management Systems Engineering, Kuwait University, Kuwait, 2004 - 2007.

Associate Professor, Department of Industrial Engineering and Management Systems, University of Central Florida, Orlando, Florida, 1992 – 2003.

Assistant Professor, Department of Industrial Engineering and Management Systems, University of Central Florida, Orlando, Florida, August 1986 - March 1991.

Teaching & Research Assistant, Department of Industrial and Management Systems Engineering, The Pennsylvania State University, University Park, Pennsylvania, September 1982 - May 1985.

Assistant Lecturer, Production Engineering Department, Alexandria University, Alexandria, Egypt. Lecturing and tutorials on the subjects: Production Engineering, Metrology, and Statistical Quality Control, February 1978 - November 1980.

Teaching Assistant, Production Engineering Department, Alexandria University, Alexandria, Egypt. Assisted in teaching the subjects: Manufacturing Engineering, Quality Control, Metrology, Engineering Statistics, and Engineering Economy, December 1975 - January 1978.

ADMINISTRATIVE EXPERIENCE

Associate Chair, Industrial Engineering and Management Systems, University of Central Florida, Orlando, Florida, 2009 – Present

Graduate Program Director, Industrial Engineering and Management Systems, University of Central Florida, Orlando, Florida, 2009 – Present

ABET Coordinator, Industrial Engineering and Management Systems, University of Central Florida, Orlando, Florida, 2007 – 2012 - - Successfully led the department to a six-year visit (highest ABET accreditation) in 2008

ABET Committee, College of Engineering and Computer Science, University of Central Florida, Orlando, Florida, 2007 – Present

Graduate Program Coordinator, Industrial Engineering and Management Systems, University of Central Florida, Orlando, Florida, 2003 – 2004

Faculty Associate, Office of International Studies, University of Central Florida, Orlando, Florida, August 2000 – 01.

Director, George F. Schrader Manufacturing Laboratory, Industrial Engineering and Management Systems, University of Central Florida, Orlando, Florida, 1987 - 2000.

Director, Precision Metrology Lab, Department of Industrial Engineering and Management Systems, University of Central Florida, Orlando, Florida, 2000 – 2010.

INDUSTRY AND CONSULTING EXPERIENCE

Six Sigma Master Black Belt and Course Instructor: 2004 to Present - Six Sigma improvement projects for different organizations, including:

- Veterans Affairs Medical Center, Orlando, Florida
- Seniors First, Meals on Wheels Program
- Department of Children and Families, Orlando, Florida
- Seminole County, Florida
- Universal Studios, Orlando

Senior Consultant, The Harrington Institute, USA, 2004 – Present: Performed consulting and training in quality management, organizational performance improvement and six sigma to several international organizations, including Abu-Dhabi Water and Electricity Authority (ADWEA), Abu-Dhabi, United Arab Emirates; Dubai Municipality; and Dubai Police.

Volunteer Executive, Center for Business Support, International Executive Service Corps, A not-for-profit business development organization, funded primarily by the U.S. Agency for International Development (USAID), 2002 – 2004.

Consultant, High Technology Systems, Cairo, Egypt, 2002 – 2004. Performed consulting and training in quality management and assisted in the development of ISO 9000 for certification.

Consultant, University of Technology, Malaysia, Department of Mechanical Engineering, Industrial and Manufacturing Engineering Programs, 1996 – 97.

Consultant, Gulf Engineering Company, Jubail, Saudi Arabia, 1996.

Guest Researcher, Precision Engineering Division, National Bureau of Standards (now National Institute of Standards & Technology), Gaithersburg, Maryland, June 1985 - August 1986.

Guest Researcher, Automated Production Technology Division, National Bureau of Standards (now National Institute of Standards & Technology), Gaithersburg, Maryland, Summers of 1981 - 84.

Navy Officer, Maintenance and Inventory Division, Egyptian Naval Forces, Alexandria, Egypt, October 1974 - November 1975.

Training internships at Mechanique de Precision in Geneva, Switzerland, Summer 1973.

Training Internship, Egyptian Copper Works in Alexandria, Egypt, Summer 1972.

HONORS AND AWARDS

Fellow, American Society for Quality (ASQ)

Alpha Pi Mu Industrial Engineering Honor Society

Tau Beta Pi Engineering Honor Society

The Honor Society of **Phi Kappa Phi**

Sigma Xi Scientific Research Society

Listed in **Lexington's Who's Who**

Listed in **Who's Who Among Young American Professionals**

Listed in **Who's Who in the South and Southwest**

2009-10 Excellence in Professional Service Award, Department of Industrial Engineering & Management Systems

2004 UCF Excellence in Professional Service Award, University of Central Florida

2004 College of Engineering Outstanding Professional Service Award, University of Central Florida

2000-01 Teaching Incentive Program Award, University of Central Florida.

Outstanding Leadership Award, ASQ Orlando Chapter, 2001-02

Outstanding Professional Service Award, Department of Industrial Engineering & Management Systems, University of Central Florida, 1999 – 00 & 2001-02

Arab-American Professors Appreciation Award, Arab American Community Center, 2000

Educational Merit Scholarship Award, Distribution Business Management Association (DBM), 1999

Outstanding Speaker Award, ASQ Orlando Chapter, 1998

Outstanding Scholar Award, Tun Hussien Unn Institute of Technology, University of Technology, Johor Bahru, Malaysia, 1997

1994 - 95 Outstanding Teacher of the Year Award, Department of Industrial Engineering & Management Systems, University of Central Florida

1994-95 Teaching Incentive Program Award, University of Central Florida.

1993 Outstanding Public Sector Organization of the Year, Individual Recognition, Florida Engineering Society.

1993 Davis Productivity Award, Exemplary Agency Award, Individual Recognition.

1992, 1993, and 1994 Outstanding Service Award, Boy Scouts of America, Pack 206, Orlando

1993-94 Professor of the Year Award, Institute of Industrial Engineers (IIE) and the Society of Manufacturing Engineers (SME) UCF Student Chapters.

1990-91 Outstanding Teacher of the Year Award, Department of Industrial Engineering & Management Systems, University of Central Florida.

Winner of The Peace Fellowship Award, Ministry of Higher Education, Government of Egypt, 1980 - 1986

RESEARCH, PUBLICATIONS, AND OTHER SCHOLARLY ACTIVITIES

RESEARCH AND TEACHING INTERESTS

- Quality Management/Systems: ISO 9000, TQM, Lean Six-Sigma
- Quality in Healthcare and Service Organizations
- Manufacturing Systems: Lean Manufacturing
- Precision Metrology: Machine Tool Metrology, Coordinate Measuring Machines
- Process Improvement: Statistical Process Control, Reliability

BOOKS

Elshennawy, A. K. and G. Weheba, G. Forthcoming (2014), Manufacturing Processes and Materials, Fifth Edition, Society of Manufacturing Engineers, Dearborn, Michigan.

Walker, Elshennawy, Gupta, and Vaughn, Forthcoming (2012), The Certified Quality Inspector Handbook, Second Edition, ASQ Quality Press, Milwaukee, Wisconsin.

Benbow, Elshennawy, and Walker, Forthcoming (2012), The Certified Quality Technician Handbook, Second Edition, ASQ Quality Press, Milwaukee, Wisconsin.

Benbow, Berger, Elshennawy, and Walker, 2007, The Certified Quality Engineer's Handbook, Second Edition, ASQ Quality Press, Milwaukee, Wisconsin.

Schrader, G. F., and Elshennawy, A. K., 2000, Manufacturing Processes and Materials, Fourth Edition, Society of Manufacturing Engineers, Dearborn, Michigan.

JOURNALS AND REFEREED PROCEEDINGS AND CONFERENCES

Submitted/Under Review/In Preparation

1. Gammoh, D., Elshennawy A., Nazzal, D., 2013, A Multivariate Data Analysis Approach that Aligns Business Strategies to Customer Requirements - Quality Assurance in Engineering Accreditation Application.
2. Gallaher, S. M.; Ahmad K. Elshennawy; and Serge Sala-Diakanda, A Systemic-Based Approach for Information Security Measurement in Organizations

Published

1. Al-Shamkhani, M. and A. K. Elshennawy, 2013, Application of Six Sigma Methodology to Reduce Environmental and Economic Impacts of Discharging the Produced Water in Southern Iraqi Oil Fields, *The Journal of Management and Engineering Integration*. Accepted.
2. Al-Shamkhani, M. and A. K. Elshennawy, 2013, Produced Water Management Method Selection Using Multi-Criteria Decision Making Process: A Case for Southern Iraqi Oil Fields, *The Journal of Management and Engineering Integration*. Accepted.

3. Aburas, H.; Nabin Sapkota; and Ahmad K. Elshennawy, 2013, Dynamic x-Bar Control Limit Process Control Procedure: A Review, *The Journal of Management and Engineering Integration*. Accepted.
4. Sapkota, N.; Hani Aburas; and Ahmad K. Elshennawy, 2013, Design of Completely Dynamic X-Bar Process Control Procedure, *The Journal of Management and Engineering Integration*. Accepted.
5. Gallaher, S. M.; Ahmad K. Elshennawy; and Serge Sala-Diakanda, 2013, An Approach for Measuring the Confidentiality of Data Assured by the Confidentiality of Information Security Systems in Healthcare Organizations, *The Journal of Management and Engineering Integration*. Accepted.
6. Elshennawy, A. K.; Bahaitham, H. and Furterer, S. Lean Sustainability Assessment Framework (LSAF) for Healthcare Organizations, *The Journal of Management and Engineering Integration*, Vol. 5, No. 2 (2012), pp. 106 – 133.
7. Elshennawy, A. K.; Bahaitham, H. and Furterer, S. Assessing Sustainability of Lean Implementation in Healthcare: A Case Study Using The Lean Assessment Framework (LSAF), *The Journal of Management and Engineering Integration*, Vol. 5, No. 2 (2012), pp. 29 – 48.
8. Elshennawy, A. K. and Palmer, A., The Design and Development of an Additive Fabrication Process and Material Selection Tool, **Invited keynote Speaker**, Proceedings of The 10th Global Congress on Manufacturing and management, 22-24 November 2010, Bangkok, Thailand
9. Gammoh, D., Elshennawy, A., Nazzal, D., and Furterer, S. “A Novel Methodology to Enhance Business Alignment using Quantitative QFD and Business Modeling Tools” *The Journal of Management and Engineering Integration (JMEI)*, Volume 3, No. 1 (2010)
10. Gammoh, D., Nazzal, D., and A. K. Elshennawy, A Framework for Integrating Quality Function Deployment with Business Architecture, IIE Industrial Engineering Research Conference (IERC), June 5 – 9, 2010, Cancun, Mexico.
11. Gammoh, D.; Elshennawy, A.; Ducharme, A. Implementing Six Sigma in a Distance Learning Application, *International Journal of Online Engineering (IJOE)*, 2009, Volume 5, No. 2 (2009)
12. Elshennawy, A. and Abeshik, V., DMARC: A Framework for the Integration of DMAIC and DMADV, *The Journal of Management and Engineering Integration (JMEI)*, Volume 2, No. 1 (2009)
13. Elshennawy, A. K. and Aly, N. Accreditation of Engineering and Business Programs, **Invited keynote Speaker**, Proceedings of the 9th International Conference on Production Engineering, Design, and Control (PEDAC), 10 – 12 February 2009, Alexandria, Egypt
14. Gammoh D., Elshennawy A., Ducharme A., “Social Impacts on the Enrollment of Women in Engineering Related Studies in Jordan”, IAMOT Annual Conf., Dubai, April 6-10, 2008.
15. Furterer, S. and A. Elshennawy, 2005, Implementation of TQM and Lean Six Sigma Tools To Local Government: A Framework and a Case Study, *International Journal of Total Quality Management and Business Excellence*, Vol. 16, No. 10, PP 1179-1191.
16. Furterer, S. And A. Elshennawy , Improving Local Government through Application of Lean Six Sigma, IIE Industrial Engineering Research Conference (IERC), May 14 – 18, 2005, Atlanta, GA, USA.
17. Elshennawy, A. K., Quality in the New Age and the Body of Knowledge for Quality Engineers, *International Journal of Total Quality Management and Business Excellence*, Vol. 15, No. 5, 2004

18. Weheba, G. and A. K. Elshennawy, A. K. 2004, A Revised Model for the Cost of Quality, International Journal of Quality and Reliability Management, Emerald Journals, UK.
19. Aly, N., and Elshennawy, A. K., 2003, World Class Production and Operations Management, California Journal of Operations Management, Vol. 1, No. 1, pp. 138-146
20. Elshennawy, A. K., F. Voehl, and N. Aly, Six Sigma Strategy for Quality Improvement, 13th International Conference for the International Association for Management of Technology (IAMOT 2004), April 3-7, 2004, Washington, D.C.
21. Elshennawy, A. K.; I, Nahmens; and M. Mullens, Quality-Based Incentive Schemes for Modular Homebuilding, Proceedings of the 2004 Industrial Engineering Research Conference (IERC), May 15-19, 2004
22. Nahmens,I; Elshennawy, A. K.; and M. Mullens, Customer Satisfaction in Homebuilding, Proceedings of the 2004 Industrial Engineering Research Conference (IERC), May 15-19, 2004
23. Voehl, F., A. K. Elshennawy, and N. Aly, Six Sigma Quality and Change Management, The 14th International CIRP Design Seminar, May 15-18, Cairo, Egypt.
24. Furterer, S. and A. K. Elshennawy, Applying Lean Six Sigma to Local Government, Proceedings of the 10th International Conference on Productivity and Quality Research (ICPQR 2004), February 15-19, 2004, Miami, Florida
25. Elshennawy, A. K. M. Mullens, and I, Nahmens, 2002, Quality Improvement in the Modular Housing Industry, Proceedings of the 2002 Industrial Engineering Research Conference (IERC), May 19-22, 2002
26. Elshennawy, A. K., 2001, Race to the Future: The Creation of Quality, Proceedings of the 2001 Production Engineering, Design, and Control Conference (PEDAC), February 13-15, 2001.
27. Elshennawy, A. K., G. S. Weheba, G. Knezevic-Zec, 2000, Modeling Process Quality, Industrial Engineering Research Conference (IERC), May 22 - 24, 2000
28. Elshennawy, A. K. and G. S. Weheba, 1999, Quality Issues in Precision Engineering: Measuring Process Quality, Industrial Engineering Research Conference, Phoenix, Arizona, May 23-24, 1999.
29. Elshennawy, A. K. and G. S. Weheba, 1999, Quality Issues in Precision Engineering: Cost of Process Improvement, Industrial Engineering Research Conference (IERC), Phoenix, Arizona, May 23-24, 1999.
30. Elshennawy, A. K., 1998, Quality Engineering History and Body of Knowledge, Proceedings of the 25th International Conference on Education and Training, ASQ Energy and Environmental Division, October 11 – 14, 1998.
31. Elshennawy, A. K. and N. Venkatesh, 1995, An Approach and A Case Study for the Implementation of Statistical Process Control, Proceedings of the 1995 Annual International Conference on Industry, Engineering, and Management Systems (IEMS '95), Gene C. H. Lee (editor)
32. Belur, K. S. and A. K. Elshennawy, 1994, A Generic IDEF Approach for the Computer-Aided Quality Function (CAQF), Proceedings of the 1994 International Conference on Industry, Engineering, and Management Systems (IEMS 94), Y. Hosni, (editor).

33. Elshennawy, A. K., Krishnaswamy, G., and Mollaghassemi, M., 1993, A Virtual Reality Approach to Concurrent Engineering Deployment, International Journal of Integrated Manufacturing Systems, MCB University Press.
34. Krishnaswamy, G., and A. K. Elshennawy, 1993, Intelligent Concurrent Engineering Environment, International Journal of Computers and Industrial Engineering, Volume 25, pp. 321-324.
35. Elshennawy, A. K. and Fang-Sheng Jing, 1993, A Simple Method for Measuring Straightness of CMM Axes, ASQC Transactions, May, pp. 659-668, ASQC, Milwaukee, Wisconsin.
36. Elshennawy, A. K., and K. McCarthy, 1992, Implementing Total Quality Management at the Department of Defense, International Journal of Total Quality Management, Vol. 3, No. 1: pp. 31-46.
37. Elshennawy, A. K., and G. Krishnaswamy, 1992, Concurrent Engineering Deployment: An Enhanced Customer Product Approach, International Journal of Computers and Industrial Engineering, Volume 23, pp. 503-506.
38. Elshennawy, A. K., V. J. Maytubby, and N. A. Aly, 1991, Concepts and Attributes of Total Quality Management, Journal of Total Quality Management, 2: 75-97.
39. McCarthy, K. M. and A. K. Elshennawy, 1991, Implementing TQM at the U.S. Department of Defense, International Journal of Computers and Industrial Engineering, Volume 21: 153-157.
40. Elshennawy, A. K. and I. Ham, 1990, Performance Improvement of Coordinate Measuring Machines by Error Compensation, Journal of Manufacturing Systems, Society of Manufacturing Engineers, Dearborn, Michigan, 9 : 151-158.
41. Aly, N. A., V. J. Maytubby, and A. K. Elshennawy, 1990, Total Quality Management: An Approach & A Case Study, International Journal of Computers and Industrial Engineering Computers and Industrial Engineering, Vol. 19, No. 1, pp. 111-116.
42. Branson, T., A. K. Elshennawy, W. Swart, and S. Chandra, 1990, Automation Technologies for the Industrialized Housing Manufacturing Industry, International Journal of Computers and Industrial Engineering, Vol. 19, No. 4, pp. 587-592.
43. Elshennawy, A. K., C. H. Lee, and M. Hines, 1989, Ergonomics Issues in Quality Control, International Journal of Computers and Industrial Engineering, Vol. 17, No. 4, pp. 514-518.
44. Elshennawy, A. K., 1989, The Role of Inspection in Automated Manufacturing, International Journal of Computers and Industrial Engineering, Vol. 17, No. 4, pp. 327-332.
45. Wall, M. S. and A. K. Elshennawy, 1989, Economically-Based Design of Sampling Plans, International Journal of Computers and Industrial Engineering, Vol. 17, No. 4, pp. 340-346.
46. Hosni, Y. A. and A. K. Elshennawy, 1988, Knowledge-Based Quality Control System, International Journal of Computers and Industrial Engineering, Vol. 15, No. 4, pp. 331-337.
47. Gupta, U. and A. K. Elshennawy, 1988, Expert Systems as a Reliability Engineering Tool, ASQC Transactions, American Society for Quality Control, pp. 728-734, May.
48. Elshennawy, A. K., I. Ham, and P. H. Cohen, 1987, Performance of Coordinate Measuring Machines, ASQC Transactions, American Society for Quality Control, May, pp. 595-604.

49. Elshennawy, A. K., and M. N. Fors, 1987, A Computer Simulation Model for Studying the Performance of Coordinate Measuring Machines, International Journal of Computers and Industrial Engineering, Volume 13, No. 4, pp. 262-266.
50. Elshennawy, A. K., and C. H. Lee, 1987, Human-Computer Interaction in Manufacturing, International Journal of Computers and Industrial Engineering, Volume 13, No. 4, pp. 402-405.

CONFERENCE PROCEEDINGS

1. Ahmed Khalafallah, Ahmad Elshennawy, Nabeel Yousef, and Mohamed Abdel-Raheem, 2010, Evaluating Contractor Quality Control under Material and non-Material Models, Proceedings of The 6th International Conference on Innovations in Architecture, Engineering, and Construction (AEC), June 9-11, 2010, Penn State University, State College, PA, pp. 876-885.
2. Ahmed Khalafallah, Nabeel Yousef, Ahmad Elshennawy, and Mohamed Abdel-Raheem, Cost Effectiveness and Risks of Outsourcing Quality Control Verification for Highway Projects, Proceedings of EPOC 2010 Conference, South Lake Tahoe, CA, November 4-7, 2010
3. Diala Gammoh, Dima Nazzal and Ahmad Elshennawy, 2010, Using Business Architecture as a Management Approach to the House of Quality Matrix, Proceedings of the Annual International Conference on Industry, Engineering, and Management Systems (IEMS), March 8-10, 2010, Cocoa Beach, Florida.
4. Emad Abualsauod, Karla Moore and Ahmad Elshennawy, 2010, A Comparative Study of Healthcare Quality in the US and Saudi Healthcare Systems, Proceedings of the Annual International Conference on Industry, Engineering, and Management Systems (IEMS), March 8-10, 2010, Cocoa Beach, Florida.
5. Ahmad K. Elshennawy and Abhishek Vootukuru, 2009, DMARC: A Framework for the Integration of DMAIC and DMADV, Proceedings of the Annual International Conference on Industry, Engineering, and Management Systems (IEMS), March 9-10, 2009, Cocoa Beach, Florida.
6. Ahmed Khalafallah, Ahmad Elshennawy, Nabeel Yousef, and Mohamed Abdel-Raheem Verification of Contractor Quality Control Program: An Analytical Study to Assess New Trends in Verification Procedures, Proceedings of the Annual International Conference on Industry, Engineering, and Management Systems (IEMS), March 9-10, 2009, Cocoa Beach, Florida.
7. Emad Abualsauod, Haitham Bahaitham, Mayuresh Joshi, Narasimha Nagaiah and Ahmad K. Elshennawy, 2008, Application of Six Sigma Methodology in Inventory Tracking Process at Florida Department of Children and Families, , Proceedings of the Annual International Conference on Industry, Engineering, and Management Systems (IEMS), March 10-12, 2008, Cocoa Beach, Florida.
8. Diala T. Gammoh, Ahmad Elshennawy and Alfred Ducharme, 2008, Performance Analysis of a New Online Delivery System at the University of Central Florida IEMS 2008, Proceedings of the Annual International Conference on Industry, Engineering, and Management Systems (IEMS), March 10-12, 2008, Cocoa Beach, Florida.
9. Tarek M. Shaalan, Ahmad K. Elshennawy and Sherif El-Araby, 2006, Reduction of Construction Projects' Costs Through Lean Quality Management, Proceedings of the Annual International Conference on Industry, Engineering, and Management Systems (IEMS), March 13-15, 2006, Cocoa Beach, Florida.

10. Sompoap Talabgaew and Ahmad K. Elshennawy, 2005, Predicting the Performance of Coordinate Measuring Machine by Probabilistic Method, Proceedings of the Annual International Conference on Industry, Engineering, and Management Systems (IEMS), March 14-16, 2005, Cocoa Beach, Florida.
11. Archana Magadi, Ahmad K. Elshennawy and Frank W. Voehl, 2004, Six Sigma Policy Deployment: The Missing Link, Proceedings of the Annual International Conference on Industry, Engineering, and Management Systems (IEMS), March 15-17, 2004, Cocoa Beach, Florida.
12. Ana M. Ferreras, Lesia L. Crumpton-Young and Ahmad K. Elshennawy , 2004, An Integrated Framework for Optimizing Business Outcomes and Process Constraint Variables to Ensure Overall Company Success, Proceedings of the Annual International Conference on Industry, Engineering, and Management Systems (IEMS), March 15-17, 2004, Cocoa Beach, Florida.
13. Gammoh D., Ducharme, A., Mehrabian, A., A. Elshennawy, "Contribution of International Students to Engineering Graduate Schools in the United States," ASEE Annual Conf. proceedings, AC2008-573, 2008
14. Gammoh D., Elshennawy A., Ducharme A., "Social Impacts on the Enrollment of Women in Engineering Related Studies in Jordan", IAMOT Annual Conf. proceedings, Dubai, UAE. Paper ID: 1569086872, April 6-10, 2008
15. Weheba, G., A. K. Elshennawy, and A. Tola, 2002, Process Improvement and Quality Costs, The 2002 Annual International Conference on Industry, Engineering, and Management Systems (IEMS) Proceedings, March 11 - 13, 2002, Cocoa Beach, Florida.
16. Aburas, H., and A. K. Elshennawy, 2002, Fully Dynamic Process Control Procedures, The 2002 Annual International Conference on Industry, Engineering, and Management Systems (IEMS) Proceedings, March 11 - 13, 2002, Cocoa Beach, Florida.
17. Zanwar, P., A. K. Elshennawy, C. Ham, and R. Johnson, 2002, Design of End Effector for A Robotic System using Pah-Beitz Evaluation Methodology, The 2002 Annual International Conference on Industry, Engineering, and Management Systems (IEMS) Proceedings, March 11 - 13, 2002, Cocoa Beach, Florida.
18. Praisant, C., Control Chart Robustness, Proceedings of the 2000 International Conference on Industry, Engineering, and Management Systems (IEMS2K), March 13 - 15, 2000, Cocoa Beach, Florida.
19. Talabgaew, S. Coordinate Measuring Machine Performance, Proceedings of the 2000 International Conference on Industry, Engineering, and Management Systems (IEMS2K), March 13 - 15, 2000, Cocoa Beach, Florida.
20. Weheba, S. S. and A. K. Elshennawy, Process Improvement Models. Proceedings of the 2001 Production Engineering, Design, and Control Conference (PEDAC), February 13 – 15, 2001, Alexandria, Egypt.
21. Weheba, G. S., and A. K. Elshennawy, The Proactive Cost of Quality, Proceedings of the 25th International Conference on Computers and Industrial Engineering, March 29-31, 1999, New Orleans, Louisiana

22. Elshennawy, A. K., Weheba, G. S. and Aly, Nael, Implementing Total Quality in Developing Nations: Issues and Challenges, Proceedings of the 8th International Conference on Management of Technology, IAMOT 1999, March 15-17, 1999, Cairo, Egypt. Refereed Abstract.
23. Weheba, G. S. and A. K. Elshennawy, 1999, Dimensions of Process Quality, Proceedings of the 1999 Annual International Conference on Industry, Engineering, and Management Systems (IEMS '99), (R. Harris, editor), pp. 402 - 406.
24. Liang, Y. and A. K. Elshennawy, 1999, A Structured Approach to Statistical Process Control, Proceedings of the 1999 Annual International Conference on Industry, Engineering, and Management Systems (IEMS '99), (R. Harris, editor), pp. 389 - 395.
25. Aly, Nael and A. Elshennawy, 1998, A Generic Approach for the Introduction of TQM in Higher Education, Proceedings of the 1998 International Conference on Industry, Engineering, and Management Systems (IEMS 98), pp. 300-304. (Ed. Hernandez, editor).
26. Elshennawy, A. K., Managing Quality in Developing Countries, The 18th Annual Conference of the American Society of Engineering Management, October 23 – 26, 1997, Virginia Beach, Virginia.
27. Elshennawy, A. K., 1992, Quality Control for Automated Manufacturing Systems, Proceedings of The Third International Conference on Management of Technology, Miami, Florida, February 17-21.
28. Elshennawy, A. K. and G. Krishnaswamy, 1992, Defining Customer's Quality Function Deployment using Finite Element Approach, IASTED (International Association for Science and Technology for Development) Conference Proceedings on Reliability, Quality and Risk Assessment, Washington, D.C., November, 4-6, 1992.
29. Hosni, Y. A. and Elshennawy, A. K., 1992, An Approach to the Development of a Knowledge-Based Quality Control System, 1st International Conference on Expert Systems and Development (ICESD-92), April 19-23, Cairo, Egypt.
30. Elshennawy, A. K., and Co-authors, 1991, A Concurrent Engineering Approach for Industrialized Housing, Design Productivity Conference proceedings, February 3-9, 1991, Honolulu, Hawaii.
31. Strange, C. C., J. Luo, and A. K. Elshennawy, 1991, A Proposed Intelligent Quality Control and Inspection System, 1991 ASEE Southeastern Section Conference, April 14-16, Charleston, SC.
32. Patel, A. and A. K. Elshennawy, 1990, Integrated Quality Control in Manufacturing, PROCIEM' 90 Conference proceedings, pp. 90-95, November 14-16, Tampa, Florida.
33. Elshennawy, A. K., and Co-authors, 1990, A Model for the Factory of the Future for Industrialized Housing, 5th International Conference on CAD/CAM, Robotics and Factories of the Future, December 2-5, Norfolk, Virginia.
34. Patel, A. T. and A. K. Elshennawy, 1990, Integrated Quality Control in Manufacturing, The Third Florida Conference on Productivity through Computer Integrated Engineering and Manufacturing, Tampa, Florida, November 14-16.
35. Farsad, B. and A. K. Elshennawy, 1989, Defining Service Quality is Difficult for Service and Manufacturing Firms, Industrial Engineering, pp. 17-19, March.

36. Elshennawy, A. K., W. Swart, and T. Branson, 1989, Review of Computer Use in Industrialized Housing Manufacture, Proceedings of the 7th International Conference on Microcomputers in Civil Engineering, edited by W. Carroll & D. S. Leftwich, November 8-9, 1989, Orlando, Florida.
37. Elshennawy, A. K., I. Ham, and P. H. Cohen, 1988, Evaluating the Performance of Coordinate Measuring Machines, Quality Progress, American Society for Quality Control, pp. 59-65, January.
38. Elshennawy, A. K., CMM Errors, 1988, Manufacturing Success, Vol.3, No. 2, Published by Solution Specialists, Grand Rapids, Michigan, February.
39. Sepulveda, J. and Y. Hosni, A. K. Elshennawy, and G. Wasserman, 1988, Computer Simulation in Support of an Industrial Engineering Program: The UCF Experience, Proceedings of the 1988 SCS Conference on Simulation in Engineering Education, Society of Computer Simulation.
40. Elshennawy, A. K., I. Ham, and P. H. Cohen, 1987, Performance of Coordinate Measuring Machines, IMSE Working Paper # 87-102, Department of Industrial and Management Systems Engineering, The Pennsylvania State University.
41. Elshennawy, A. K., 1987, Defining Human-Computer Interaction in the Manufacturing Environment, Proceedings of the 2nd International Conference on Human-Computer Interaction, Hawaii.
42. Elshennawy, A. K. and P. H. Cohen, 1986, Machined Parts Accuracy - An Overview, Proceedings of the 3rd International Conference on Production Engineering, Design, and Control (PEDAC 3), Alexandria University, Egypt, December.
43. Rashed, A. F. and A. K. Elshennawy, 1980, Break-even Analysis of Incoming Defective Percent for Destructive and Non-destructive Sampling Inspection, Proceedings of the 5th International Conference on Automated Inspection and Product Control, Stuttgart.
44. Rashed, A. F. and A. K. Elshennawy, 1980, Optimum Number of Inspection Stations, Proceedings of the 5th International Conference on Automated Inspection and Product Control, Stuttgart.
45. Rashed, A. F. and A. K. Elshennawy, 1980, Factors Affecting the Design of Acceptance Sampling Plans, Proceedings of the 1st International Conference on Production Engineering, Design and Control (PEDAC I), Alexandria University, December.
46. Rashed, A. F., M. M. El-Gammal and A.K. Elshennawy, 1980, Evaluating the Defect-Detection Methods with Application to Welded Joints, Proceedings of the 1st International Conference on Production Engineering, Design and Control (PEDAC I), Alexandria University, Egypt, December.

EDITED BOOK CONTRIBUTIONS

1. Elshennawy A. K. and F. Voehl, Lean Service, Service Engineering Handbook (Salvendy and Karwowski, editors), John Wiley and Son, 2010
2. Elshennawy, A. K., Metrology and Calibration, The Certified Quality Technician Handbook (Benbow, Elshennawy, and Walker, editors), ASQ Quality Press, 2002.
3. Elshennawy, A. K., Inspection and Sampling, The Certified Quality Technician Handbook (Benbow, Elshennawy, and Walker, editors), ASQ Quality Press, 2002.

4. Elshennawy, A. K., Measurement Systems, The Certified Quality Engineer's Handbook (Benbow, Berger, Elshennawy, and Walker, editors), Second Edition, ASQ Quality Press, 2001.
5. Elshennawy, A. K., Inspection and Sampling Schemes, The Certified Quality Engineer's Handbook (Benbow, Berger, Elshennawy, and Walker, editors), Second Edition, ASQ Quality Press, 2001.
6. Elshennawy, A. K., and W. W. Swart, Applications of Total Quality Concepts to Organizational Effectiveness, pp.219 –240, in "The Guidebook for Performance Improvement: Working with Individuals and Organizations," (Roger Kaufman, S. Thiagarajan, and P. McGillis, Editors), Pfeiffer/Jossey-Bass Inc., Publishers, 1997, 650 pages.
7. Elshennawy, A. K., Automation, 1996, Encyclopedia of Business, Gale Research, Detroit, Michigan.
8. Elshennawy, A. K., 1996, Quality Control, Encyclopedia of Business, Gale Research, Detroit, Michigan.
9. Elshennawy, A. K., 1996, Control Charts, Encyclopedia of Business, Gale Research, Detroit, Michigan.
10. Elshennawy, A. K., 1996, Manufacturing, Encyclopedia of Business, Gale Research, Detroit, Michigan.
11. Elshennawy, A. K., 1996, Statistical Process Control, Encyclopedia of Business, Gale Research, Detroit, Michigan.
12. Elshennawy, A. K., 1996, Cycle Time, Encyclopedia of Business, Gale Research, Detroit, Michigan, 1996
13. Elshennawy, A. K., 1996, Histograms, Encyclopedia of Business, Gale Research, Detroit, Michigan, 1996
14. Elshennawy, A. K., 1996, Flow Charts, Encyclopedia of Business, Gale Research, Detroit, Michigan, 1996
15. Elshennawy, A. K., 1996, Probabilities, Encyclopedia of Business, Gale Research, Detroit, Michigan, 1996
16. Elshennawy, A. K., 1996, Productivity, Encyclopedia of Business, Gale Research, Detroit, Michigan, 1996
17. Elshennawy, A.K. and R. Zipin, 1992, Metrology, pp. 85-123 in "Quality Engineering Handbook," (T. Pyzdek & R. Berger, Editors), Marcel-Dekker, Inc/ASQC Quality Press, 617 pp.
18. Elshennawy, A. K., W. Swart, and S. Chandra, 1992, Application of Robotics and Automation Technologies to Industrialized Housing Manufacture, pp. 273-293, in "Economics of Advanced Manufacturing Systems," (H. Parsaei and A. Mital, Editors), Chapman & Hall, New York, 344 pp.
19. Elshennawy, A. K. and G. Krishnaswamy, 1993, Customized Concurrent Engineering: Fabrication of a Customer's Vision, Productivity and Quality Management Frontiers, Sumanth, Edosomwan, Poupart, & Sink (editors): Proceedings of the 4th International Conference on Productivity and Quality Research (ICPQR-93), pp. 688-696.
20. Elshennawy, A. K., C. H. Lee, W. W. Swart, & S. Chandra, 1990, Human Engineering Aspects in the Automation of Industrialized Housing Manufacture, in Human Aspects of Hybrid Automation II, edited by W. Karwowski & M. Rahimi, pp. 1001-1007, Elsevier Science Publishers.
21. Elshennawy, A. K. and Y. Hosni, 1990, Planning and Control Issues in Automated Manufacturing, in "Justification Methods for Computer Integrated Manufacturing Systems," (H. Parsaei, T. Ward, and W. Karwowski, Eds.), Elsevier Science Publishers, pp. 40-61.

22. Lee, C. H., and A. K. Elshennawy, 1987, Ergonomics in Industrial Quality Inspection, Trends in Ergonomics/Human Factors IV, (S. Asfour, editor), Elsevier Science Publishers B.V. (North-Holland).

TECHNICAL REPORTS

1. Mullens, M., A. Elshennawy, and Scott Broadway, Quality Systems and Improved Plant Design, Research Report, Hickory Consortium, Boston, October 2001
2. Elshennawy, A. K. and Sofi Bte. Ismail, Development and Implementation of Quality Improvement Techniques and Standards for the Electronic Industry, Research Report, Mitsumi Electronics (Batu Pahat) Sdn Bhd, Malaysia, November 1997.
3. Swart, W., M. Mullens, A. Elshennawy, S. Chandra, L. Young, P. Haas and B. Cai, **Energy Efficient Industrialized Housing (EEIH) Task Report: Manufacturing Process Innovation, Report to U.S. DOE**, Dept. of Industrial Engineering and Management Systems, University of Central Florida, Orlando, FL, January, 1991.
4. Chandra, S., W. Swart, A. K. Elshennawy and Co-authors, 1990, Energy Efficiency in Industrialized Housing: An Assessment and Recommendations for the 21st Century, Refereed Paper for the ACEEE 1990 Summer Study on Energy Efficiency in Buildings, Pacific Grove, California, August 26 - September 1.
5. Elshennawy, A. K., and Industrialized Housing Project Team, 1989, Project Reports (Vol. I: 1989 Task Reports and Vol. II: Manufacturing Systems Analysis & Appendices), Center for Housing Innovation, University of Oregon, Florida Solar Energy Center, and UCF Department of Industrial Engineering, February. These documents were not refereed but reviewed by DOE.
6. Elshennawy, A. K., and W. W. Swart, 1989, GE "House 1000" Manufacturing Facility, Report to GE Plastics in Pittsfield, Massachusetts, September.
7. Elshennawy, A. K., and F. Jing, 1988, A Simple Method for Measuring Straightness of Coordinate Measuring Machines, NBSIR Publication 88-3759, National Bureau of Standards (now National Institute of Standards & Technology), Gaithersburg, Maryland.
8. Hosni, Y., A. K. Elshennawy, and J. Castro, 1988, Time and Labor Standards for Florida Production Engineering Company, Technical Report, Grant #16-24-810.
9. Elshennawy, A. K. et al., 1987, Performance Improvement of Coordinate Measuring Machines by Error Compensation, IMSE Working Paper # 87-128, Department of Industrial and Management Systems Engineering, The Pennsylvania State University.
10. Elshennawy, A. K., 1987, An Investigation into the Performance of Measuring Machines and Machine Tools, Technical Report, Grant # 16-94-707, Engineering and Industrial Experiment Station, University of Central Florida, November.
11. Elshennawy, A. K., and P. H. Cohen, 1983, On The Factors Affecting Machined Part Accuracy, IMSE Working Paper # 83-133, Department of Industrial and Management Systems Engineering, The Pennsylvania State University.
12. El-Gammal, M. M., and A. K. Elshennawy, 1983, Statistical Evaluation of Fatigue Life of Welded Joints - A Theoretical Approach, SME Technical Paper No. IQ83-935, Society of Manufacturing Engineers.

PRESENTATIONS

Invited Keynote Presentations

The Design and Development of an Additive Fabrication Process and Material Selection Tool, The 10th Global Congress on Manufacturing and management, 22-24 November 2010, Bangkok, Thailand

Elshennawy, A. K. and Aly, N. Accreditation of Engineering and Business Programs, A keynote paper presented at the 9th International Conference on Production Engineering, Design, and Control, 10 – 12 February 2009, Alexandria, Egypt

Elshennawy, A. K. Race to the Future: A Journey of Quality throughout the Ages, A keynote paper presented at the 7th International Conference on Production Engineering, Design, and Control, 13 – 15 February 2001, Alexandria, Egypt

Other Conference Presentations

1. Al-Shamkhani, M. and A. K. Elshennawy, Application of Six Sigma Methodology to Reduce Environmental and Economic Impacts of Discharging the Produced Water in Southern Iraqi Oil Fields, Annual International Conference on Industry, Engineering, and Management Systems (IEMS), March 24-27, 2013, Cocoa Beach, Florida.
2. Aburas, H.; N. Sapkota, and A. K. Elshennawy, Dynamic x-Bar Control Limit Process Control Procedure: A Review, Annual International Conference on Industry, Engineering, and Management Systems (IEMS), March 24-27, 2013, Cocoa Beach, Florida.
3. Sapkota, N.; H. Aburas; and A. K. Elshennawy, Design of Completely Dynamic X-Bar Process Control Procedure, Annual International Conference on Industry, Engineering, and Management Systems (IEMS), March 24-27, 2013, Cocoa Beach, Florida.
4. Al-Sulami, H. and A. K. Elshennawy, A Model for Assessing the Effectiveness of Nationalization of Employment in the Saudi Private Sector, Annual International Conference on Industry, Engineering, and Management Systems (IEMS), March 24-27, 2013, Cocoa Beach, Florida.
5. Gallaher, S. M.; A. K. Elshennawy; and S. Sala-Diakanda, An Approach for Measuring the Confidentiality of Data Assured by the Confidentiality of Information Security Systems in Healthcare Organizations, Annual International Conference on Industry, Engineering, and Management Systems (IEMS), March 24-27, 2013, Cocoa Beach, Florida.
6. Gallaher, S. M.; A. K. Elshennawy; and S. Sala-Diakanda, A Systemic-Based Approach for Information Security Measurement in Organizations, Annual International Conference on Industry, Engineering, and Management Systems (IEMS), March 24-27, 2013, Cocoa Beach, Florida.
7. Gammoh, D. T.; D. Nazzal; A. K. Elshennawy; and S. Furterer, A Multivariate Data Analysis Approach that Aligns Business Strategies to Customer Requirements - Quality Assurance in Engineering Accreditation Application, Annual International Conference on Industry, Engineering, and Management Systems (IEMS), March 24-27, 2013, Cocoa Beach, Florida.

8. Elshennawy, A. 2012, Improving The Performance of Healthcare Systems with Six Sigma: Course-Based Case Studies, Industrial and Systems Engineering Research Conference (ISERC), May 19-23, 2012, Orlando, Florida.
9. Elshennawy, A. and Bahaitham, H., A Framework for Quantifying Sustainability of Lean Implementation in Healthcare Organizations, Industrial and Systems Engineering Research Conference (ISERC), May 19-23, 2012, Orlando, Florida.
10. Diala T. Gammoh, Dima Nazzal and Ahmad Elshennawy, A Multivariate Data Analysis Approach that Aligns Business Strategies to Customer Requirements - Quality Assurance in Engineering Accreditation Application, Annual International Conference on Industry, Engineering, and Management Systems (IEMS 2012), March 25-27 Cocoa Beach, Florida.
11. Hemaïd Al-Sulami, Ahmed Mohammed and Ahmad Elshennawy, Improving Patient Check-In and Out Processes Utilizing Six Sigma DMAIC Tools at Medical Clinics, Annual International Conference on Industry, Engineering, and Management Systems (IEMS 2012), March 25-27 Cocoa Beach, Florida.
12. Ahmad K. Elshennawy, Haitham Bahaitham and Sandra Furterer, Assessing Sustainability of Lean Implementation in Healthcare: A Case Study Using the Lean Sustainability Assessment Framework (LSAF), Annual International Conference on Industry, Engineering, and Management Systems (IEMS 2012), March 25-27 Cocoa Beach, Florida.
13. Ahmad K. Elshennawy, Haitham Bahaitham and Sandra Furterer, Lean Sustainability Assessment Framework (LSAF) for Healthcare Organizations, Annual International Conference on Industry, Engineering, and Management Systems (IEMS 2012), March 25-27 Cocoa Beach, Florida.
14. Mohammed Hamed Alomairy and Ahmad Elshennawy, Using Six Sigma Methodology to Reduce Missed Opportunity at Nutrition and Food Services Outpatient Clinic, Annual International Conference on Industry, Engineering, and Management Systems (IEMS 2012), March 25-27 Cocoa Beach, Florida.
15. Diala Gammoh, Dima Nazzal and Ahmad Elshennawy, 2010, Using Business Architecture as a Management Approach to the House of Quality Matrix, Annual International Conference on Industry, Engineering, and Management Systems (IEMS), March 8-10, 2010, Cocoa Beach, Florida.
16. Emad Abualsauod, Karla Moore and Ahmad Elshennawy, 2010, A Comparative Study of Healthcare Quality in the US and Saudi Healthcare Systems, Annual International Conference on Industry, Engineering, and Management Systems (IEMS), March 8-10, 2010, Cocoa Beach, Florida.
17. Ahmed Khalafallah, Ahmad Elshennawy, Nabeel Yousef, and Mohamed Abdel-Raheem, 2010, Evaluating Contractor Quality Control under Material and non-Material Models, The 6th International Conference on Innovations in Architecture, Engineering, and Construction (AEC), June 9-11, 2010, Penn State University, State College, PA
18. Ahmed Khalafallah, Nabeel Yousef, Ahmad Elshennawy, and Mohamed Abdel-Raheem, Cost Effectiveness and Risks of Outsourcing Quality Control Verification for Highway Projects, EPOC 2010 Conference, South Lake Tahoe, CA, November 4-7, 2010
19. Ahmad K. Elshennawy and Abhishek Vootukuru, 2009, DMARC: A Framework for the Integration of DMAIC and DMADV, Annual International Conference on Industry, Engineering, and Management Systems (IEMS), March 9-10, 2009, Cocoa Beach, Florida.

20. Ahmed Khalafallah, Ahmad Elshennawy, Nabeel Yousef, and Mohamed Abdel-Raheem Verification of Contractor Quality Control Program: An Analytical Study to Assess New Trends in Verification Procedures, Annual International Conference on Industry, Engineering, and Management Systems (IEMS), March 9-10, 2009, Cocoa Beach, Florida.
21. Emad Abualsauod, Haitham Bahaitham, Mayuresh Joshi, Narasimha Nagaiah and Ahmad K. Elshennawy, 2008, Application of Six Sigma Methodology in Inventory Tracking Process at Florida Department of Children and Families, , Annual International Conference on Industry, Engineering, and Management Systems (IEMS), March 10-12, 2008, Cocoa Beach, Florida.
22. Diala T. Gammoh, Ahmad Elshennawy and Alfred Ducharme, 2008, Performance Analysis of a New Online Delivery System at the University of Central Florida IEMS 2008, Annual International Conference on Industry, Engineering, and Management Systems (IEMS), March 10-12, 2008, Cocoa Beach, Florida.
23. Tarek M. Shaalan, Ahmad K. Elshennawy and Sherif El-Araby, 2006, Reduction of Construction Projects' Costs Through Lean Quality Management, Annual International Conference on Industry, Engineering, and Management Systems (IEMS), March 13-15, 2006, Cocoa Beach, Florida.
24. Sompoap Talabgaew and Ahmad K. Elshennawy, 2005, Predicting the Performance of Coordinate Measuring Machine by Probabilistic Method, Annual International Conference on Industry, Engineering, and Management Systems (IEMS), March 14-16, 2005, Cocoa Beach, Florida.
25. Archana Magadi, Ahmad K. Elshennawy and Frank W. Voehl, 2004, Six Sigma Policy Deployment: The Missing Link, Annual International Conference on Industry, Engineering, and Management Systems (IEMS), March 15-17, 2004, Cocoa Beach, Florida.
26. Ana M. Ferreras, Lesia L. Crumpton-Young and Ahmad K. Elshennawy , 2004, An Integrated Framework for Optimizing Business Outcomes and Process Constraint Variables to Ensure Overall Company Success Annual International Conference on Industry, Engineering, and Management Systems (IEMS), March 15-17, 2004, Cocoa Beach, Florida.
27. Elshennawy, A. K. M. Mullens, and I, Nahmens, Quality Improvement in the Modular Housing Industry, The 2002 Industrial Engineering Research Conference (IERC), May 19-22, 2002, Orlando, Florida
28. Weheba, G., A. K. Elshennawy, and A. Tola, 2002, Process Improvement and Quality Costs, The 2002 Annual International Conference on Industry, Engineering, and Management Systems (IEMS), March 11 - 13, 2002, Cocoa Beach, Florida.
29. Aburas, H., and A. K. Elshennawy, 2002, Fully Dynamic Process Control Procedures, The 2002 Annual International Conference on Industry, Engineering, and Management Systems (IEMS), March 11 - 13, 2002, Cocoa Beach, Florida.
30. Zanwar, P., A. K. Elshennawy, C. Ham, and R. Johnson, 2002, Design of End Effector for A Robotic System using Pah-Beitz Evaluation Methodology, The 2002 Annual International Conference on Industry, Engineering, and Management Systems (IEMS), March 11 - 13, 2002, Cocoa Beach, Florida.
31. Elshennawy, A. K. Race to the Future: A Journey of Quality throughout the Ages, A keynote paper to be presented at the 7th International Conference on Production Engineering, Design, and Control, 13 – 15 February 2001, Alexandria, Egypt

32. Talabgaew, S. and A. K., Elshennawy, 2000, Current Issues in the Performance of Coordinate Measuring machines, The 2000 Annual International Conference on Industry, Engineering, and Management Systems (IEMS 2K), March 13 - 15, 2000, Cocoa Beach, Florida.
33. Praisant, C. and A. K., Elshennawy, 2000, Control Chart Robustness for Economic Considerations, The 2000 Annual International Conference on Industry, Engineering, and Management Systems (IEMS 2K), March 13 - 15, 2000, Cocoa Beach, Florida.
34. Elshennawy, A. K., G. S. Weheba, and Gorana Knezevic-Zec, Modeling process Quality: Issues and Recent Developments, Industrial Engineering Solutions 2000 Conference, May 22 - 24, 2000, Cleveland, Ohio
35. Elshennawy, A. K. and G. S. Weheba, Quality Issues in Precision Engineering, Part I: Measuring Process Quality, the 1999 Industrial Engineering Research Conference, Phoenix, Arizona, May 1999
36. Elshennawy, A. K. and G. S. Weheba, Quality Issues in Precision Engineering, Part II: Cost of Process Improvement, The 1999 Industrial Engineering Research Conference, Phoenix, Arizona, May 1999
37. Weheba, G. S., and A. K. Elshennawy, The Proactive Cost of Quality, The 25th International Conference on Computers and Industrial Engineering, March 29-31, 1999, New Orleans, Louisiana
38. Elshennawy, A. K., Weheba, G. S. and Aly, Nael, Implementing Total Quality in Developing Nations: Issues and Challenges, The 8th International Conference on Management of Technology, IAMOT 1999, March 15-17, 1999, Cairo, Egypt. Refereed Abstract.
39. Weheba, G. S. and A. K. Elshennawy, 1999, Dimensions of Process Quality, The 1999 Annual International Conference on Industry, Engineering, and Management Systems (IEMS '99), March 8 - 10, 1999, Cocoa Beach, Florida.
40. Liang, Y. and A. K. Elshennawy, 1999, A Structured Approach to Statistical Process Control, The 1999 Annual International Conference on Industry, Engineering, and Management Systems (IEMS '99), March 8 - 10, 1999, Cocoa Beach, Florida.
41. Aly, Nael and A. Elshennawy, 1998, A Generic Approach for the Introduction of TQM in Higher Education, The 1998 International Conference on Industry, Engineering, and Management Systems (IEMS 98), March 9 - 11, 1999, Cocoa Beach, Florida.
42. Elshennawy, A. K., 1998, Quality Engineering: History and Body of Knowledge, Invited Speaker at the 25th International Conference on Education and Training, ASQ Energy and Environmental Division, October 11 - 14, 1998, Orlando, Florida.
43. Elshennawy, A. K., 1998, Evolution of Quality Engineering and Body of Knowledge, Invited Speaker at the ASQ Orlando Chapter September Meeting, September 24, 1998, Orlando, Florida.
44. Elshennawy, A. K., Managing Quality in Developing Countries, The 18th Annual Conference of the American Society of Engineering Management, October 23 - 26, 1997, Virginia Beach, Virginia.
45. Elshennawy, A. K., Machine Tool Characterization, 19th Annual International Conference on Computers and Industrial Engineering, Miami, Florida, March 4 - 6, 1996.

46. Venkatesh, N. and A. K. Elshennawy, An Approach and A Case Study for the Implementation of Statistical Process Control, The 1995 Annual International Conference on Industry, Engineering, and Management Systems (IEMS '94), March 13 - 15, 1995, Cocoa Beach, Florida.
47. Phillips, P. M., and A. K. Elshennawy, 1994, Implementing Quality Concepts in Education: A Case of Continuous Process Improvement, 4th International Conference on Management of Technology, Miami, Florida, February 28-March 4.
48. Elshennawy, A. K. and J. Bhupathi, Quality in the Service Industry: A Review and Survey, The 1994 Annual International Conference on Industry, Engineering, and Management Systems (IEMS '94), March 14 - 16, 1994, Cocoa Beach, Florida.
49. Elshennawy, A. K. and J. Bhupathi, Measurement of Quality in the Service Industry, The 1994 Annual International Conference on Industry, Engineering, and Management Systems (IEMS '94), March 14 - 16, 1994, Cocoa Beach, Florida.
50. Rogers, R., K. Rao, and A. K. Elshennawy, An Information System Design Approach to Meet the Increasing Needs of Continuous Process Improvement, The 1994 Annual International Conference on Industry, Engineering, and Management Systems (IEMS '94), March 14 - 16, 1994, Cocoa Beach, Florida.
51. Belur, K. S., and A. K. Elshennawy, A Generic IDEF Model for the Computer Aided Quality Function (CAQF) of a CIM System, The 1994 Annual International Conference on Industry, Engineering, and Management Systems (IEMS '94), March 14 - 16, 1994, Cocoa Beach, Florida.
52. Elshennawy, A. K. and Fang-Sheng Jing, A Simple Method for Measuring Straightness of CMM Axes, 47th Annual Quality Congress, Boston, Massachusetts, May 24-26, 1993.
53. Elshennawy, A. K. and G. Krishnaswamy, Customized Concurrent Engineering: Fabrication of a Customer's Vision, 4th International Conference on Productivity and Quality Research (ICPQR-93), February 9-12, Miami, Florida, 1993.
54. Elshennawy, A. K. and G. Krishnaswamy, Defining Customer's Quality Function Deployment using Finite Element Approach, presented at the IASTED (International Association for Science and Technology for Development) Conference on Reliability, Quality and Risk Assessment, Washington, D.C., November, 4-6, 1992.
55. Elshennawy, A. K., and G. Krishnaswamy, Concurrent Engineering Deployment: An Enhanced Customer Product Approach, 14th Annual Conference on Computers and Industrial Engineering, Cocoa Beach, Florida, March 9-11, 1992.
56. Elshennawy, A. K., and G. Krishnaswamy, Intelligent Concurrent Engineering Environment, 15th Annual Conference on Computers and Industrial Engineering, Cocoa Beach, Florida, March 8-10, 1993.
57. Elshennawy, A. K., and G. Krishnaswamy, An Approach to Customer's Quality Function Deployment, 34th ORSA/TIMS Joint National Meeting, San Francisco, California, November 1-4, 1992.
58. Kennedy, D., and A. K. Elshennawy, SPC and Coordinate Measuring Machines for In-Process Inspection, 33rd TIMS/ORSA Joint National Meeting, Orlando, Florida, 26-29 April, 1992.
59. Kaber, D. B., and A. K. Elshennawy, Justification of An Automated Inspection Expert System, 33rd TIMS/ORSA Joint National Meeting, Orlando, Florida, 26-29 April, 1992.

60. Elshennawy, A. K., Process Control in Manufacturing Systems, 1991, PROCIEM Technology Transfer Forum, June 13-14, Orlando, Florida.
61. Elshennawy, A. K., C. H. Lee, W. W. Swart, & S. Chandra, Human Engineering Aspects in the Automation of Industrialized Housing Manufacture, 2nd International Conference on Human Aspects of Advanced Manufacturing and Hybrid Automation, Honolulu, Hawaii, August 12-16, 1990.
62. Chandra, S., W. Swart, A. K. Elshennawy and Co-authors, Energy Efficiency in Industrialized Housing: An Assessment and Recommendations for the 21st Century, presented at the ACEEE 1990 Summer Study on Energy Efficiency in Buildings, Pacific Grove, California, August 26-September 1, 1990.
63. Elshennawy, A. K., W. Swart, and S. Chandra, Concurrent Engineering for the Industrialized House, presented at the 1990 Annual ASCE Convention, San Francisco, California, November 5 - 8, 1990.
64. Strange, C. C., J. Luo, and A. K. Elshennawy, A Proposed Intelligent Quality Control and Inspection System, 1991 ASEE Southeastern Section Conference Proceedings, Charleston, S.C., April 14-16, 1991.
65. Elshennawy, A. K., W. W. Swart, and S. Chandra, Energy Efficient, Affordable Industrialized Housing for the 21st Century, presented at the XVIII IAHS World Congress - Buildings in the Future, Rio de Janeiro, October 8-12, 1990.
66. Elshennawy, A. K., V. J. Maytubby, & N. A. Aly, Total Quality Management: An Approach & A Case Study, presented at the 12th International Conference on Computers and Industrial Engineering, March 12-14, 1990, Orlando, Florida.
67. Young, L., W. Swart, A. Elshennawy, and S. Chandra, Industrial Engineering Opportunities for the Industrialized Housing Manufacturing Industry, 12th Conference on Computers and Industrial Engineering, March 12-14, 1990, Orlando, Florida.
68. Elshennawy, A. K., W. Swart, and T. Branson, Review of Computer Use in Industrialized Housing Manufacture, 7th International Conference on Microcomputers in Civil Engineering, November 8-9, 1989, Orlando, Florida.
69. Branson, T., A. Elshennawy, W. Swart, and S. Chandra, Automation Technologies for the Industrialized Housing Manufacturing Industry, 12th Conference on Computers and Industrial Engineering, March 12-14, 1990, Orlando, Florida.
70. Elshennawy, A. K., C. H. Lee, and M. Hines, Ergonomics Issues in Quality Control, presented at the 11th International Conference on Computers and Industrial Engineering, March 15-17, 1989, Orlando, Florida.
71. Elshennawy, A. K., The Role of Inspection in Automated Manufacturing, presented at the 11th International Conference on Computers and Industrial Engineering, March 15-17, 1989, Orlando, Florida.
72. Elshennawy, A. K. and M. S. Wall, Economically-Based Design of Sampling Plans, presented at the 11th International Conference on Computers and Industrial Engineering, March 15-17, 1989, Orlando, Florida.
73. Hosni, Y. A., and A. K. Elshennawy, Knowledge-Based Quality Control System, 10th International Conference on Computers and Industrial Engineering, Dallas, TX, March 23-25, 1988.

74. Sepulveda, J., Y. Hosni, A. K. Elshennawy, and G. Wasserman, Computer Simulation in Support of an Industrial Engineering Program: The UCF Experience, 1988 SCS Conference on Simulation in Engineering Education, Society of Computer Simulation, January 1988.
75. Elshennawy, A. K. and M. N. Fors, A Computer Simulation Model for Studying the Performance of Coordinate Measuring Machines, 9th International Conference on Computers and Industrial Engineering, Atlanta, Ga., March 18-20, 1987.
76. Elshennawy, A. K. and C. H. Lee, Human-Computer Interaction in Manufacturing, 9th International Conference on Computers and Industrial Engineering, Atlanta, Ga., March 18-20, 1987.
77. Lee, C. H. and A. K. Elshennawy, Ergonomics in Industrial Quality Inspection, 9th Annual Conference on Industrial Ergonomics and Safety, Miami, FL, June 9-12, 1987.
78. Elshennawy, A. K., Defining Human-Computer Interaction in the Manufacturing Environment, 2nd International Conference on Human-Computer Interaction, Hawaii, August 10-14, 1987.
79. Elshennawy, A. K., M. M. El-Gammal, and A. F. Rashed, A Proposed Analysis for the Evaluation of the Defect-Detection Method with Application to Welded Joints, 1983 ASNT Spring Conference, Orlando, Florida, March 7-10, 1983.
80. El-Gammal, M. M., and A. K. Elshennawy, Statistical Evaluation of Fatigue Life of Welded Joints, QualTest-2 Conference, Dallas, TX, October 25-27, 1983.
81. Elshennawy, A. K., and A. F. Rashed, Factors Affecting the Design of Acceptance Sampling Plans, 1st International Conference on Production Engineering, Design, and Control (PEDAC-I), Alexandria University, Egypt, December 1980.
82. Elshennawy, A. K., A. F. Rashed, and M. El-Gammal, Evaluating the Defect-Detection Methods with Application to Welded Joints, 1st International Conference on Production Engineering, Design, and Control (PEDAC-I), Alexandria University, Egypt, December, 1980.

SPONSORED RESEARCH FUNDING

Elshennawy, A. Assessment of the Applicability and Requirements for the Development of an Electronic Work Control System for NASA/KSC, \$25,000, July 1, 2008 – June 30, 2009.

Khalafalah, A., Elshennawy, A. and Yousef, N., Cost and Quality Effectiveness of Material and Non-Material Models in Contractor Quality Control (CQC) System, RFRP #-07/08-003, \$79,970.00, The Florida Department of Transportation Research Center, May 1, 2008 – January 31, 2009.

Housing Inspection in Central Florida, Co-PI (.50FTE), Michael Mullens (PI), Orlando Sentinel, budgeted for \$ 42, 783, funded for \$30,000, 2002-03.

EEIH: Innovations in Manufacturing Technology, USDOE/FSEC, Co-PI (.50 FTE), \$185,000, 2002-03, Total Budget to Date: \$593,873.

Modular Housing Research: Research Support for Hickory Consortium, 2002-03, Co-PI (.50 FTE), M. Mullens (PI), DOE/Hickory Consortium, \$145, 813, funded for \$125,000. Total funding: \$231,500

Industrialized Housing Constructability, Co-PI (Michael Mullens, PI), DOE/FSEC, \$205,000, 2000-02.

Interdisciplinary Course Development for Engineering and Education Graduate Programs (with Richard Cornell), University of Central Florida, \$2000, June 2000

Malaysia Research and Development Project, Elshennawy, A. K. (PI), Purdue University/ Malaysian Department of Education, 198,045.00, 1997.

Manufacturing engineering Education at UCF: Capabilities and Needs, A. Elshennawy (PI), SME Manufacturing Engineering Education Foundation, \$70,649.00, 1995-96.

Process Control in Automated Manufacturing Systems, A. K. Elshennawy, Florida High Technology & Industry Council, Grant #16-24-703, 1991, \$33,000.00.

Energy Efficient Industrialized Housing: Manufacturing Process Analysis & Innovation (with W. Swart and M. Mullens), U. S. Department of Energy, The program is a multidisciplinary, multiyear effort in collaboration with the Center for Housing Innovation of the University of Oregon and the Florida Solar Energy Center. Project funding for 1989-90 totaled \$300,000.00. The Actual Funding for 1988-93 is \$0.9 million.

Quality Control in Automated Manufacturing Systems, A.K. Elshennawy, Engineering Industrial and Experiment Station, Grant #16-94-718, January - May 1991, \$6,905.00.

Post-Process Control in Automated Manufacturing Systems, A. K. Elshennawy, Florida High Technology & Industry Council, Grant #16-24-702, January - December 1990, \$18,700.00, Funded.

Improving the Manufacturing Engineering Programs at UCF (with G. Schrader), SME Manufacturing Engineering Education Foundation, May 1990-June 1991, \$15,844.00.

Development of Precision Engineering Laboratory at UCF, A. K. Elshennawy, Brown & Sharpe Metrology Grant Program, June 1990-May 1991, \$ 12,996.00.

Improving the Manufacturing Engineering Programs at UCF, A. K. Elshennawy, SME Manufacturing Engineering Education Foundation, \$53,945.00, June 1991 - May 1992.

Process Control in Automated Manufacturing Systems -- Phase II, A. K. Elshennawy, Florida High Technology & Industry Council, \$36,794.00, 1990-91

Industrialized Housing Manufacturing Systems Analysis, Florida Solar Energy Center (FSEC)/U.S. Department of Energy, (with W. Swart), \$200,000, 1989-90.

Quality in Automation, Engineering and Industrial Experiment Station (EIES), UCF College of Engineering, \$5,046, 1990.

Manufacturing Facility Development for the 21st Century House," General Electric Company -Plastics Division (with W. Swart), \$10,000, 1989.

Studies in Precision Engineering, Engineering and Industrial Experiment Station (EIES), \$5,046, 1988.

Assessment and Evaluation of Industrial Robot Performance, Engineering and Industrial Experiment Station (EIES), UCF, \$4,780, 1988.

Manufacturing Productivity Enhancement, Sponsored by Florida Production Engineering Company, Daytona Beach, Florida, \$38,449, 1987-88.

Improving the Manufacturing Engineering Education, Grant from the Society of Manufacturing Engineers (SME), \$2,450, 1987.

An Investigation into the Performance of Measuring Machines and Machine Tools, sponsored by The Engineering and Industrial Experiment Station (EIES), \$8,758, UCF, August 86 - May 87.

Containerization of Materials, Sponsored by Cardinal Industries, Sanford, FL, Assistant to Principal Investigator (J. E. Biegel), 1986.

TRW Travel Fellowship Award, TRW/SME, Society of Manufacturing Engineers, \$200, 1988.

RESEARCH PROPOSALS PENDING OR NOT FUNDED

Intelligent Operations Center to Develop A Unified Systems Engineering Platform for Modeling and Designing State-of-The-Art Sustainable Cities, Co-PI (\$83,799.00), Qatar Foundation, Total Proposed Budget: \$418,995.00

Qatar Healthcare Education: A Unified Patient-Centered Health Management Educational Wellness Platform, Co-PI (\$62,832.00), Qatar Foundation, Total Proposed Budget: \$448,805.00

Optimizing The Risk and Cost of Materials Quality Assurance programs, Joint submission with South Dakota State University (Dr. Hesham Mahgoub), Co-PI (\$53,198) NCHRP Project 10-92, Transportation Research Board, Total Proposed Budget: \$98,658.00

Lean Thinking in Manufactured Housing, Manufacture Housing Research Alliance, Co-PI, \$62,500. Total Budget: \$187,500

Research Support for Hickory Consortium 2003-04 (with M. Mullens, PI), DOE/Hickory Consortium, \$47,688, Not funded

Optimization of Transportation Network Projects, Co-PI, CATSS, \$49,448, 2002-03. Principal Investigator for the Quality in Transportation portion of the project (\$23,000)

Development of a Quality Management System for the Transportation Industry, (with A. Oloufa), Center for Advanced Transportation System Simulation (CATSS), December 2001, \$87,790

Optimization of Highway Construction using Design of Experiments and Taguchi Methods, (with H. Mahgoub and Y. Hosni), Center for Advanced Transportation System Simulation (CATSS), December 2001, \$112,390

Risk and Reliability Assessment of Transportation Systems, A White Paper to the US Department of Transportation, October 2001, \$260,000

Quality and Productivity Improvement at Finrock Industrial Company, Apopka, with Bill Thompson, October 1999, \$35,000

Quality Improvement at Florida Department of Transportation, Tallahassee, Florida, December 2000, \$180,000

Excellence in Metrology Education, Elshennawy, A. K., Brown and Sharpe Equipment Grant Program, \$25,195.00, 2000

Quality and Productivity Improvement at Finrock Industrial Company, Apopka, with Bill Thompson, October 1999, \$35,000, Declined

Rapid Response Manufacturing in Support of I-4 Corridor Industries: A Joint Effort between UCF and USF, UCF (Co-PI with Y. Hosni), Office of Research and Graduate Studies, \$156,500.00, 1998

Maintenance and Parts Fabrication Center in Support of the Egyptian Industry, Y. Hosni (PI) and A. Elshennawy, Supreme Council of Universities, Foreign Relations Coordination Unit (FRCU), \$400,000, 1997.

The Development and Implementation of a Systems Approach to Continuous Improvement in the Healthcare Industry, Co-PI: A. K. Elshennawy, Nael Aly, and Kathy Bankson, NSF Transformation to Quality Organizations program, \$481,294.00, 1995-96

The Development and Implementation of a Systems Approach to Continuous Improvement in the Healthcare Industry in Central Florida, Co-PIs: A. K. Elshennawy, R. Safford, and F. Moslehy (Mechanical Engineering), Academic Initiatives in Strategic Planning Award Program, 47,787.00, 1995-96, Declined.

Integrated Semiconductor Manufacturing, Control, Characterization, and Automation, Elshennawy, A. K. (with J. Yuan and Z. Qu from Electrical Engineering), NSF, 1994, \$208,504.00

Integrated Quality Control for Automated Manufacturing Systems, Florida High Technology & Industry Council (HTIC), \$19,863, 1989

NIST Manufacturing Technology Center, Joint Effort with Other State of Florida Universities, National Institute of Standards and Technology (Formerly National Bureau of Standards,) \$4,613,611

Improving Robot Performance for Space Operations, Technological Research and Development Authority, State of Florida, \$97,123, 1988

THESES & DISSERTATIONS SUPERVISED

A. *Theses and Dissertations Completed – Thesis/Dissertation Advisor:*

Khaled Odeh, Summer 2013, A Framework For Measuring Innovation within The Context of A Defense Organization, **Ph.D. Dissertation**, Major Advisor and Committee Co- Chair

Joe Bass, Spring 2013, Engineering Success: A Study of The Influences of Organizational Philosophies, Ideologies, and Cultures, **Ph.D. Dissertation**, Major Advisor and Committee Chair

Maher Alshamkhani, Spring 2013, Managing, Controlling and Improving the Treatment of Produced Water Using the Six Sigma Methodology for the Iraqi Oil Fields, **MS Thesis**, Major Advisor and Committee Chair

Shawn Ghallhar, Summer 2012, A Methodology for Measuring The Confidentiality of Information Security Systems in Healthcare Organizations, **Ph.D. Dissertation**, Major Advisor and Committee Chair

Haitham Bahiatham, Fall 2011, A Framework for Quantifying Sustainability of Lean Implementation in Healthcare Organizations*, **Ph.D. Dissertation**, Major Advisor and Committee Chair

*** This dissertation was the 2011 – 2012 Winner of the University of Central Florida Best Dissertation Award!**

Diala T. Gammoh, Summer 2010, Enterprise Business Alignment using Quality Function Deployment, Multi-Variate Analysis and Business Modeling Tools, **Ph.D. Dissertation**, Major Advisor and Committee Chair

Andrew Palmer, Spring 2009, Additive Fabrication Process and material Selection Tool, **MS Thesis**, Advisor and Committee Chair

Sandy Furterer, Spring 2004, Lean Six Sigma Implementation in Local Government, **Ph.D. Dissertation**, Major Advisor and Committee Chair

Mohammed Asiri, Summer 2004, A Framework for Successful Implementation of ISO 9000:2000 Quality Management System in Developing Countries, **Ph.D. Dissertation**, Major Advisor and Committee Chair

Gorona Knezevic-Zec, Fall 2003, Bootstrap Confidence Intervals for Process Capability Analysis for Short Run Production, **Ph.D. Dissertation**, Major Advisor and Committee Chair

Sompoap Talabgaew, 2003, Modeling and Prediction the Performance of Coordinate Measuring Machines, **Ph.D. Dissertation**, Major Advisor and Committee Chair

Isa Nahmens, Fall 2003, Evaluation of Customer Satisfaction in the Homebuilding Industry, **MS Thesis**, Major Advisor and Committee Co-Chair

Serge Sala-Diakanda, 2003, Comparison of Friction Stir Welding (FSW) and Automatic Riveting in the Assembly of Major Aircraft Structures, **MS Thesis**, Major Advisor and Committee Chair

Hani Aburas, 2002, Design, Simulation, and Optimization of a Fully Dynamic x-bar Process Control Procedure, **Ph.D. Dissertation**, Major Advisor and Committee Chair

Chiantani Praisant, 2002, Using Economic Models for Process Improvement to Evaluate the Performance of Control Chart, **Ph.D. Dissertation**, Major Advisor and Committee Chair

Adam Maamoun, 2001, A Framework for the Implementation of An ISO 9000-Based Certification Program for Printed Circuit Board Manufacturers, **MS Thesis** Advisor and Committee Chair

Slim Bin-Ismael, 2001, Process Capability Analysis Using Motorola's Six-Sigma Characterization Methodology, **MS Thesis**, Advisor and Committee Chair

Reginald Mannam, 1999, An Alternate Approach for Reliability-Centered Maintenance, **MS Thesis**, Major Advisor and Committee Chair

Mostaffa Ibrahim, 1998, Variability reduction in the Surface Mount Technology Manufacturing Systems, **MS Thesis**, Major Advisor

James Kohr Haan Khaun, 1998, Implementing TQM in the Malaysian Higher Education System, **MS Thesis**, Major Advisor

Lee Chee Mee, 1998, Performance Evaluation Algorithms for CNC Machine Tools, **MS Thesis**, Major Advisor

Kasturi Belur, 1995, Knowledge-Based Structured Design of Manufacturing Systems, **MS Thesis**, Committee and Major Advisor

Anthony LaManna, May 1993, Design and Development of Information System for Concurrent Engineering, **MS Thesis**, Committee and Major Advisor

Ganesh Krishnaswamy, August 1993, Intelligent Concurrent Engineering, **MS Thesis**, Committee and Major Advisor

Bing Cai, August 1991, In-Process Inspection and Quality Control for Manufacturing Systems, **MS Thesis**, Committee Chair and Major Advisor

B. Theses and Dissertations Completed – Committee Member:

Wilfred Wills, Fall 2011, Development of A Cognitive Work Analysis Framework Tutorial using Systems Modeling Language, **Ph.D. Dissertation**, Committee Member

Reza Hajikordestani, Fall 2010, Taxonomy of Lean Six Sigma Success factors, **MS Thesis**, Committee member

Kyongsun Lee, Fall 2010, Effects of Flight Factors on Pilot Performance, Workload, and Stress at ‘Final Approach to Landing’ Phase of Flight, **Ph.D. Dissertation**, Committee Member

Robert Beaver, Summer 2009, Contribution of Individual and Group Strategies for Organizational Learning in AEC Firms, **Ph.D. Dissertation**, Committee Member

Adam Maamoun, Summer 2008, A surrogate Measure of Customer Satisfaction in the Manufacture of Printed Wiring Boards, **Ph.D. Dissertation**, Committee Member

Tareq Ahram, Fall 2008, Information Retrieval Performance Enhancement Using the Average Standard Estimator and the Multi-Criteria Decision Weighted Set of Performance Measures, **Ph.D. Dissertation**, Committee Member

Rey Diaz, Management Systems Fit for Organizational Performance, Committee Member, **Ph.D. Dissertation**, Major Advisor: Tim Kotnour

Bonnie McIlrath, Summer 2002, Processes and Tools for Organizational Alignment, Committee Member, **MS Thesis**, Major Advisor: Tim Kotnour

Ankit Shah, Summer 2003, Detecting Structural Changes in Supply Chain Using Neural Networks, Committee Member, **MS Thesis**, Major Advisor: Luis Rabelo

Rob Wittman, 2003, A. Taxonomy for Integrating Command and Staff Simulation with Instructional Technologies, **Ph.D. Dissertation**, Major Advisor: Michael Proctor

Labiche Ferrare, 2000, Crash Quality: A Study to Explain the Relative Deterioration of Quality, **Ph.D. Dissertation**, Committee Member

Gina Humphery, 2000, Integrated Model for Software, Hardware, and Human Reliability, **Ph.D. Dissertation**, Committee Member

Frank Hodum, Early Life Cycle Software Reliability Modeling, **MS Thesis**, May 1999, Committee Member, Major Advisor: Y. Hosni

Quality Cost Modeling, Gamal S. Weheba, **Ph. D. Dissertation**, December 1995, Committee member, Major Advisor: Y. Hosni.

C. *Theses and Dissertations In progress:*

Julie Sisson, A Framework for The Development of A Model for Successful, Sustained Lean Improvement And Implementation, **Ph.D. Dissertation**, Major Advisor and Committee Chair, In Progress, Expected Date: **Spring 2014**

Mohammed Alomairy, A Study of The Effect of Innovation On Organizational Performance Utilizing Baldrige Criteria, **Ph.D. Dissertation**, Major Advisor and Committee Chair, In Progress, Expected Date: **Spring 2014**

Mohammed Alghamdi, Dissertation Title: TBD, Major Advisor and Committee Chair

Melissa Francisco, Dissertation Title: TBD, Major Advisor and Committee Chair

Kelcey Jason, Dissertation Title: TBD, Major Advisor and Committee Chair

Anthony Castello, A Learning-by-Teaching Paradigm for Complex Task Training, **Ph.D. Dissertation**, Committee Member, In Progress, Expected Date: **Summer 2013**

Andreas Kuncoro, An Empirical Study of ISO 9001 in Indonesian Vocational Education System and Its Effects on The Administrator and Teachers Performances, **Ph.D. Dissertation**, Major Advisor and Committee Chair, In Progress, Expected Date: **Spring 2014**

Hemaid Alsulami, A Model for Assessing the Effectiveness of Nationalization of Employment in the Saudi Private Sector, **Ph.D. Dissertation**, In Progress, Expected Date: Summer 2014, Major Advisor and Committee Chair

Abdullah Hallawany, Design for Six Sigma As A Methodology To Enhance The Design Of Higher Education Academic Curriculums, **Ph.D. Dissertation**, In Progress, Expected Date: Summer 2014, Major Advisor and Committee Chair

Nelson Lerma, Dissertation Title: TBD, Major Advisor and Committee Chair

Emad Abualsaoud, Integrating Multiobjective Optimization with The Six Sigma Methodology For Enhanced Process Control Decision Making, **Ph.D. Dissertation**, Committee Member, In Progress, Expected Date: Spring 2014

Jose Cintron, A Framework for Measuring The Value-Added Of Knowledge Processes With Analysis Of Process Integrations and Dynamics, **Ph.D. Dissertation**, Committee Member, In Progress, Expected Date: Spring 2014

C. *Other Theses and Research Reports Completed:*

Implementing Total Quality Management in the Department of Defense, MS Research Report, Kimberly M. McCarthy, Completed May 1990, Major Advisor

Potential Applications of Automation in Industrialized Housing, Timothy R. Branson, MS Research Report, completed December 1990, Major Advisor

Total Quality Management, MS Research Report, Vennetta J. Maytubby, completed December 1989, Major Advisor

Robotics in Space Applications, MS Research Report, Paul V. Perkovich, completed December 1989, Major Advisor

Manufacturing Resource Planning (MRP II), MSE Research Report, Jeffrey McGowan, completed August 1989, Major Advisor

Methods for Quality Control and Productivity Improvement, MS Research Report, Mary I. Hines, completed August 1989.

Non-Contact, Three Dimensional Object Digitizing Systems, MS Research Report, Daniel K. Nasser, December 1989.

Application of Expert Systems to the Materials Handling Problem, MS Research Report, Jack Castro, December 1989.

Economic Design of Lot-by-Lot Acceptance Sampling by Attributes, MS Thesis, Michael S. Wall, University of Central Florida, August 1988.

A Learning Curve Model for Interrupted Production, MSE Research Report, B. Zarkoob, University of Central Florida, 1988.

A Dynamic Performance-Based Student Model for an Intelligent Simulation Training System, MSE Thesis, Jenifer Sargeant, University of Central Florida, 1988.

An Overview of Machine Vision, MS Research Report, Juan C. Telchi, University of Central Florida, 1988.

MRP, JIT, and OPT: A Comparison on the Production Floor, MSE Research Report, Donna M. Denicole-Christopher, University of Central Florida, 1988.

Effect of Manufacturing Tolerances on the Number of Load Carrying Fasteners in a Joint Subjected to a Shear Load -A Statistical Approach, MS Thesis, L.J. Borkowski, University of Central Florida, 1987.

Implementing Path Control, English Motion Commands and Off-Line Programming on MiniMover-5 Robot, MS Thesis, M. Chen, University of Central Florida, 1987.

Intelligent Robots, MS Research Report, Abulhassan Moulavi, University of Central Florida, 1987.

A Computerized Flow Process Charting System and Applications, MS Thesis, A. Griffin, University of Central Florida, 1987.

D. Undergraduate Honors Thesis Completed:

Martha Sist, Implementing Quality in the Healthcare Industry, Thesis Advisor, Completed May 2002

Matthew McCloud, Cost-Effective Levels of Energy Efficiency in Manufactured Homes, Committee Member, Completed December 2001

OTHER SCHOLARLY ACTIVITIES

Fellow, American Society for Quality (ASQ)

Senior Editor, Journal of Management and Engineering Integration, Association of Industry, Engineering, and Management Systems (AIEMS)

Reviewer, Annual Quality Congress Transactions, ASQ

Reviewer, Engineering for Industry, ASME Transactions

Reviewer, International Journal of Computers & Industrial Engineering

Reviewer, International Journal of Quality and Reliability Management

Reviewer for the refereed proceedings of Annual International Conference on Industry, Engineering, and Management Systems (IEMS), 1994 – present

Reviewer for the refereed proceedings of Annual International Conference on Management of Technology, 1995 – Present.

Certified Six Sigma Master Black Belt (CSSMBB), Harrington Institute, USA

Certified Quality Engineer (CQE), American Society for Quality (ASQ), Certification No. 8666.

Certified Reliability Engineer (CRE), American Society for Quality (ASQ), Certification No. 2659.

Director of Development and Quality Control, The Association for Industry, Engineering, and Management Systems (AIEMS)

Co-Chair, Annual International Conference on Industry, Engineering, and Management Systems, 1997 – Present.

Reviewed several articles and books – A partial list:

- . ASQ Quality Press, Milwaukee, Wisconsin.
- . Prentice-Hall, Englewood Cliffs, New Jersey.
- . Corporate Metrology, by Bob Brenner, Marcel Dekker.
- . Quality: A Business Prescription for American Schools, by Stanley Spanbauer, Marcel Dekker.
- . Justification Methods for Computer Integrated Manufacturing Systems, edited by H. Parsaei, Elsevier Science Publishers.
- . Other Books in Quality, Enterprise Reengineering, and Reliability.
- . Economics of Advanced Manufacturing Systems, edited by H. Parsaei & A. Mital, Chapman & Hall.

EDITORIAL BOARDS

Editorial Board, The Journal of Management and Engineering Integration, Association for Industry, Engineering, and Management Systems (AIEMS)

Elshennawy 2012

Editorial Review Board, Quality Progress, American Society for Quality (ASQ)

Standing Review Board, American Society for Quality (ASQ)

TEACHING

Teaching-Related Activities

Graduate Program Coordinator, Department of Industrial Engineering and Management Systems, UCF

Coordinator, Quality and Manufacturing Programs, 1987 - 2004:
MS: Manufacturing Systems Engineering Track
MS: Quality Engineering Track
Ph.D.: Quality Specialty

Director, Precision Metrology and Quality Engineering Laboratory, 2000 – 2010.

Faculty Advisor and Founder: Student Branch, American Society for Quality

Faculty Advisor and Founder: Student Chapter, Society of Manufacturing Engineers

Teaching Awards

2000-01 Teaching Incentive Program Award, University of Central Florida.

Outstanding Scholar Award, Tun Hussien Unn Institute of Technology, University of Technology, Johor Bahru, Malaysia, 1997

Educational Merit Scholarship Award, Distribution Business Management Association (DBM), 1999

Outstanding Scholar Award, Tun Hussien Unn Institute of Technology, University of Technology, Johor Bahru, Malaysia, 1997

1994 - 95 Outstanding Teacher of the Year Award, Department of Industrial Engineering & Management Systems, University of Central Florida.

1994 Teaching Incentive Program Award, University of Central Florida.

1993-94 Professor of the Year Award, Institute of Industrial Engineers (IIE) and the Society of Manufacturing Engineers (SME) UCF Student Chapters.

1990-91 Outstanding Teacher of the Year Award, Department of Industrial Engineering & Management Systems, University of Central Florida.

TEACHING ACTIVITIES

University of Central Florida

Courses Taught

Regular Courses

Advanced and Nontraditional Manufacturing Processes (Graduate)
Computer-Aided Manufacturing (Undergraduate)
Computer Numerical Control (Graduate)
Empirical Methods in Industrial Engineering (Undergraduate)
Engineering Administration (Undergraduate)

Elshennawy 2012

Engineering Economic Analysis (Undergraduate)
Industrial Control Systems (Undergraduate)
Integrated Factory Automation Systems (Undergraduate/Graduate)
Manufacturing Systems Engineering (Graduate)
Precision Engineering (Graduate)
Probability and Statistics for Engineers (Graduate/Undergraduate)
Project Engineering (Graduate)
Quality Design and Control (Graduate)
Quality Control in Automation (Graduate)
Quality Engineering (Undergraduate)
Quality Management (Graduate)
Reliability Engineering (Graduate/Undergraduate)
Reliability Engineering & Quality Assurance (Undergraduate)
Robotics in Industry (Graduate)
Robots and Automated Systems (Graduate)
Total Quality Management (Graduate)
Total Quality Improvement (Graduate/Undergraduate)

University of Central Florida

Special Topics & Independent Study Courses

Measurement System Analysis
Manufacturing Systems Optimization
Statistical Process Management and Control
Six Sigma Quality
Taguchi Methods for Quality Engineering
Topics in Reliability Engineering
Software Quality Assurance

University of Central Florida

Courses Developed and Taught:

Advanced and Nontraditional Manufacturing Processes (Graduate)
Integrated Factory Automation Systems (Undergraduate/Graduate)
Reliability Engineering (Undergraduate/Graduate)
Empirical Methods in Industrial Engineering (Undergraduate)
Quality Management (Graduate)
Quality Design and Control (Graduate)
Productivity Engineering (Graduate)
Precision Engineering (Graduate)
Tool Engineering & Manufacturing Analysis (Undergraduate/Graduate)
Quality Control in Automation (Graduate)
Electronics Manufacturing (Graduate)
Advanced Manufacturing Processes (Graduate)
Concurrent Engineering (Graduate/Undergraduate)
Total Quality Management (Graduate)
Total Quality Improvement (Graduate/Undergraduate)

University of Central Florida

Programs Developed:

A. Developed the MS program requirements* for:

1. Manufacturing Engineering with the following options:

Manufacturing Management
Manufacturing Processes and Systems
Computer Integrated Manufacturing

2. Product Assurance Engineering (now Quality Engineering*)

3. Precision Engineering and Manufacturing

B. Developed the Certificate program in Quality Assurance*

Quality and Manufacturing Programs Coordinator, IEMS Department

** These programs are currently undergoing further enhancement and modification*

University of Technology, Malaysia

BEM 6223: Quality Control and Reliability
BEM 6213: Production Tooling and Design Applications
BEM 6041: Senior Design Project

Kuwait University

Engineering Management
Engineering Economy
Work Design and Measurement
Engineering Statistics

Penn State University

Teaching Assistant for the following Courses:

Tool Engineering and Manufacturing Analysis (Undergraduate)
Manufacturing Processes (Undergraduate)
Statistical Consulting (Graduate)

Alexandria University, Egypt

Teaching Assistant for the following Courses:

Manufacturing Processes (Undergraduate)
Quality Control and Engineering Statistics (Undergraduate)
Theory of Metal Cutting (Undergraduate)
Quality Control and Reliability (Graduate)
Fundamentals of Production Engineering (Undergraduate)

Partnerships Initiated

American Society for Quality (ASQ) Orlando Section 1509 and the Harrington Group in Orlando. Coordinated a Six-Sigma Black belt training involving 24 graduate and undergraduate students. The partnership targeted projects serving the Central Florida community, including Seniors First / Meals on Wheels program, UCF FEEDS system, and Seminole County Alliance. This is 9-month training and improvement community projects to earn six sigma black belts that's provided for students free of charge, including materials. Normal cost for such programs is in the range of \$6000-\$7000 per individual.

Institute for Productivity and Quality (PQI), Arab Academy for Science and Technology, 2000, Academic and Partnership Agreement for Student and faculty Exchange, Program Development, and Distance Doctoral Program. Designated as UCF Coordinator for the agreement.

University of Technology, Malaysia: 1997, coordinated and hosted a visit by the Director and Faculty of Tun Hussien Onn Institute of Technology and representative from the Malaysian department of education to COE at UCF. The effort was targeted at attracting and initiating collaborative research opportunities with Malaysian universities, September 9 – 11, 1997.

SMP Electronics, 2001 – Present, Student and Faculty professional development and plant tours. Arrangements for student projects are underway.

Piezo Technology: 1994 – 1997, student support and experimentation, course projects for ESI 4221: Empirical Methods in Industrial Engineering, proposals for continuing education courses were developed.

SHORT COURSES AND TRAINING CONDUCTED

Six Sigma Training and Green Belt Certification, 2004 – 2010. Consulting and Workshops for different organizations in Dubai and Abu-Dhabi (United Arab Emirates) including, Abu-Dhabi Water and Electricity Authority (ADWEA), Abu-Dhabi, United Arab Emirates; Dubai Municipality, and Dubai Police.

Conducted training and consulting workshops (TQM, Six Sigma, and Organizational Performance) for several industrial organizations in Kuwait. These workshops were organized by Kuwait University professional Development Division during my sabbatical at KU, 2004 – 2007

Six Sigma Concept for Improving Organizational Performance, Kuwait University, Kuwait, November 12 – 16, 2005, OCCD.

From Quality to Total Quality: An Integrated Approach, Kuwait University, Kuwait, December 24 – 28, 2005, OCCD.

Overcoming the Technical Barriers to Trade through Standardization and Quality Management, Cairo, Egypt, March 25-27, 2002, sponsored by the International Trade Center, Geneva, Switzerland

Training and consulting in SPC and measurement system analysis, SMP Electronics, Orlando, Florida, 2001 - present

Transportation Engineering and Management Seminar, August 4-17, 2001, Orlando, Florida, sponsored by Technology, Innovations & Management Experts, Cairo, Egypt

Research Methods, August 20-23, 2001, Orlando, Florida, sponsored by King Abdul-Aziz University, Saudi Arabia

Conducted a Two-Day Workshop/Seminar on Total Quality Management, October 10 – 11, 1997, ITTHO, University of Technology, Johor, Malaysia.

Conducted a Half-Day Seminar on Concurrent Engineering, Department of Mechanical Engineering, University of Technology, Johor, Malaysia, March 15, 1997.

Computer Integrated Manufacturing and New Product Innovation, A Short Course, September 22 – 26, 1997, ITTHO, University of Technology, Johor, Malaysia.

Conducted training programs & consulting in Statistical Process Control, Quality Engineering, and Total Quality Management (TQM), 1994 –96, for:

- . Piezo Technologies, Inc., Orlando, Florida.
- . Grasebey Infrared Industries, Orlando, Florida.

Conducted refresher courses for Quality and Reliability Engineering Certification, 1992 – 94, for:

- . Martin-Marietta Electronics, Information, and Missiles Group, Orlando, Florida
- . Siemens Stromberg-Carlson, Lake Mary, Florida.

Conducted several short courses and preparation courses for Quality Engineering and Reliability Engineering certification, Statistical Process Control, and ISO 9000, UCF Division of Continuing Education, 1993 - 1995.

Conducted a short course on Manufacturing Systems Simulation for Stromberg-Carlson's CIM Training Program administered by VCC, January-April, 1990, 30 Hours.

Refresher Course for Reliability Engineer Certification Examination, Training Course for Stromberg-Carlson, Orlando, Florida, Spring 1990.

Developed a proposal for a 2-week workshop on SPC & Taguchi Methods for Florida Production Engineering (FPE) in Daytona Beach, 1989.

Developed "Automated Inspection Systems," Pre-Conference Workshop for the 11th Conference on Computers and Industrial Engineering, Not offered, Orlando, March 1989.

Statistical Quality Control, USBI, Kennedy Space Center, December 19-20, 1988.

SERVICE

Professional Societies

American Society for Quality (ASQ):

ASQ Fellow
Certified Quality Engineer
Certified Reliability Engineer
Standing Review Board, ASQ Quality Press
Editorial Review Board, ASQ Quality Progress

Society of Manufacturing Engineers (SME) – Senior Member

Institute of Industrial Engineers (IIE) - Senior Member

American Society for Precision Engineering (ASPE)

American Society for Engineering Education (ASEE)

Professional Society & Conference Activities

Co-Chair, The Annual Conference on Industry, Engineering, and Management Systems (IEMS), 1994 – Present.

Six Sigma Community Projects Steering Committee, ASQ Orlando Section 1509, 2003 – Present

Executive Board and Past Chair, ASQ Orlando Section 1509, 2001 - Present

Chair, ASQ Orlando Section 1509 Executive Committee, 2000 - 2001

Education Committee Co-Chair, ASQ Orlando Section 1509 Executive Committee, 2001 - 2004

Examining Committee Chair, ASQ Orlando Section 1509 Executive Committee, 2000 - 2001

Quality Month Committee Chair, ASQ Orlando Section 1509 Executive Committee, 2000 - 2001

Kualaty Kid Committee Chair, ASQ Orlando Section 1509 Executive Committee, 2000 - 2001

Secretary, ASQ Orlando Section 1509 Executive Committee, 2000 - 2001

Co-Chair, The Annual Conference on Information Systems in Engineering and Construction (ISEC), 2001 – Present.

Organizing Committee Chair, 4th International Conference on Engineering Design and Automation, July 30 – August 2, 2000, Orlando, Florida

Session Chair on Reliability and Maintainability, The 2000 Annual International Conferences on Industry, Engineering, and Management Systems, Cocoa Beach, Florida, March 13 – 15, 2000

Member of the ASQ Orlando Section 1509 Executive Committee, 1999 – present

Faculty Advisor, ASQ – UCF Student Section, 1999 – present

Annual Conference of the Institute of Industrial Engineers, Chaired session on Quality Systems for Technology, IIE Solutions Conference, May 21 – 24, 2000, Cleveland, Ohio.

Session Co-Chair, Two Sessions on Advances in Precision Engineering & Rapid Prototyping at The 1999 Industrial Engineering Research Conference (IERC), Institute of Industrial Engineers, Phoenix, Arizona, May 1999

Session Chair, Technology, Human, and Social Issues session, The 1999 International Conference on Management of Technology (IAMOT 99), Cairo, Egypt, March 15-17, 1999

Session Chair, Quality and Productivity session, The 1999 International Conference on Management of Technology (IAMOT 99), Cairo, Egypt, March 15 – 17, February 1999

Program Chair, 1994 & 1995 Annual International Conferences on Industry, Engineering, and Management Systems.

Chairman, SME Orlando Chapter 160, 1988-89

Chairman, Education Committee, SME Orlando Chapter, 1987-89

Chairman, Career Guidance Committee, SME Orlando Chapter, 1988-89

Faculty Advisor and Founder, SME Student Chapter 195, UCF, 1987-Present

Member, Quality Information Systems Technical Committee, ASQC

Program Chair, 1994 and 1995 Annual International Conference on Industry, Engineering, and Management Systems (IEMS '94 & IEMS '95)

Participated in the 1986 & 1987 COE Phonathons, UCF.

Host, SME Tropic Zone, Region V Meeting, Orlando, Florida, October 7-8, 1988.

Chaired different Sessions on topics related to industrial/manufacturing/quality engineering at 10th - 15th International Conferences on Computers and Industrial Engineering, 1988 - 1993.

Chaired two sessions at the SME Orlando' 90 Manufacturing Productivity Conference, January 1990.

Publications Chair, Organizing Committee, TIMS/ORSA Joint National Meeting, Orlando, 1992.

Chairman, SME Orlando Chapter 160, 1988-89

Chairman, Education Committee, SME Orlando Chapter, 1987-89

Chairman, Career Guidance Committee, SME Orlando Chapter, 1988-89

Faculty Advisor and Founder, SME Student Chapter 195, UCF, 1987-Present

President, Egyptian Student Association, The Pennsylvania State University, University Park, PA, September 1981 - August 1985.

President, International Student Council, The Pennsylvania State University, University Park, PA, March 1983 - April 1984.

Member, University Student Executive Council (USEC), The Pennsylvania State University, University Park, PA, July 1983 -April 1984.

Member, University Committee for International Programs, International Council, The Pennsylvania State University, University Park, PA, July 1983 - April 1984.

Chaired a session on "Expert & Decision Support Systems", 12th Conference on Computers and Industrial Engineering, March 11-13, 1991, Orlando, Florida.

Chaired two sessions at the SME Orlando' 90 Manufacturing Productivity Conference, January 30-31, 1990.

Chaired three sessions at the 11th International Conference on Computers and Industrial Engineering, Orlando, Florida, March 15-17, 1989.

Host, SME Tropic Zone, Region V Meeting, Orlando, Florida, October 7-8, 1988.

Chairman, Session on "Industrial Engineering Computer Tools", 10th International Conference on Computers and Industrial Engineering, Dallas, Texas, March 23-25, 1988.

Publications Committee Chairman, Local Committee for TIMS/ORSA Joint National Meeting in Orlando in 1992.

Frequent attendance at SME & ASQC Orlando Chapters meetings

Service-Related Awards

2009 Outstanding professional Service Award, Department of Industrial Engineering & Management Systems, University of Central Florida

2004 University Excellence in Professional Service Award, University of Central Florida

Outstanding Professional Service Award, College of Engineering and Computer Science, University of Central Florida, 2003 - 04

2003 Community Service Award, American Society for Quality, ASQ Orlando Section 1509

2001 – 02 Outstanding Leadership Award, American Society for Quality, ASQ Orlando Section 1509

Outstanding Professional Service Award, Department of Industrial Engineering & Management Systems, University of Central Florida, 2001-02

Outstanding Professional Service Award, Department of Industrial Engineering & Management Systems, University of Central Florida, 1999 – 00

Arab-American Professors Appreciation Award, Arab American Community Center, 2000

Outstanding Speaker Award, ASQ Orlando Chapter, 1998

1993 Outstanding Public Sector Organization of the Year, Individual Recognition, Florida Engineering Society.

1993 Davis productivity Award, Exemplary Agency Award, Individual recognition.

1992, 1993, and 1994 Outstanding Service Award, Boy Scouts of America, Pack 206, Orlando

University/College/Department Committees

Chair, Promotion and Tenure Committee, Department of Industrial Engineering and Management Systems, UCF, 2011 - Present

ABET Committee Chair, Department of Industrial Engineering and Management Systems, UCF, January 2007 - 2013

Faculty Senate, UCF, 2011-2013 & 2013 - 2015

Committee on Committee, Faculty Senate, 2011 -2012

Steering Committee, Faculty Senate, 2011 - 2013

ABET Committee, College of Engineering and Computer Science, UCF, January 2007 - Present

University Program Review and Awards Committee, UCF Graduate Council, 2009 – 2013

Chair, University Program Review Committee, UCF Graduate Council, 2013 – Present

University Honors Committee, UCF, 2009 – 2011

Promotion and Tenure Committee, College of Engineering and Computer Science, 2009 – 2011

Faculty Search Committee, Department of Industrial Engineering and Management Systems, UCF, January 2009 - Present

Graduate Program Coordinators Committee, College of Engineering and Computer Science, UCF, January 2009 - Present

Graduate Program Committee Chair, Department of Industrial Engineering and Management Systems, UCF, January 2009 - Present

Undergraduate Program Committee, Department of Industrial Engineering and Management Systems, UCF, January 2008 - Present

Graduate Program Committee Chair, Department of Industrial Engineering and Management Systems, UCF, 2003 - 2004

Graduate Council, Faculty Senate, UCF, 2003 - 2004

Research Incentive Program Subcommittee, Faculty Senate, UCF, 2000-2001

Committee on Committee, Faculty Senate, UCF, 2000 – 01

Faculty Senate, Third Term, UCF, 2002 - 04

Faculty Senate, Second Term, UCF, 2000 - 02

Graduate Course Review and New Programs Subcommittee, 1998-99

Graduate Council, UCF Faculty Senate, 1998 – 99

Faculty Search Committee, Department of Industrial Engineering and Management Systems, UCF, March – June 2000

Faculty Senate, UCF, 1998 – 2000

Quality and Manufacturing Programs Coordinator, IEMS Department, 1994 – Present

Chair, Departmental Laboratory and Space Committee, 1998 – 2000

Chair, Tenure and Promotion/Personnel Committee, 1998 - 99

Graduate Council Course Review and New programs subcommittee, 1998 – present

Chair, Manufacturing Engineering Education Committee, IEMS Department (1995-present)

Chair, Quality Engineering Committee, IEMS Department (1995-present)

Honors and Awards Committee, College of Engineering (1992-present)

Ph.D. Qualifying Examination Committee, IEMS Department (1987-present)

Dean's Advisory Committee, College of Engineering (1989-1992)

MS (Computer Integrated Manufacturing) Committee Chair

MS (Product Assurance Engineering) Committee Chair

University Learning Resource Council, UCF, 1989-90

University Admission Standards Committee, 1987-88

Graduate Standards Committee, College of Engineering, 1989-91

Facilities Committee, College of Engineering, UCF, 1987-89

Personnel Committee, IEMS Department, UCF, 1988-89 & 1990-94

Research Incentives Ad-Hoc Committee, College of Engineering, 1988-89

Property/Inventory Coordinator, IEMS Department, 1987-present

Director, Computer-Integrated Manufacturing Laboratory, IEMS Department

IIE Scholarship Committee, IEMS Department, 1986-87

Other Community Service Activities

Six Sigma Community Improvement Project, ASQ, 2003 – Present

Volunteer Executive, International Executive Service Corps (IESC), 2001-Present

Science Fair Judge Coordinator, Page Private School, 2001 - Present

Boy Scout Leader, Boy Scouts of Central Florida, 1991 -95

Science Fair judge, Page Private School, December 1999

Science Fair judge, Page Private School, December 1998

Judge, Science Fair, Lake Highland Preparatory School , Orlando, FL., January 14, 1987

Judge, 1986 IIE Scholarship Committee, UCF

Judge, 9th Annual Central Florida Physics Olympics, April 2, 1987

Participated in the 1986 & 1987 COE Phonathons, UCF