

CURRICULUM VITAE

for

MARK R. MILLER, Ph.D., CSTM, CSMS, CSEG, CLSSBB, CLSSGBHP

Soules College of Business

The University of Texas at Tyler

Office: (903) 566-7186

E-mail: mmiller@uttyler.edu

ACADEMIC RANK

Professor & Chair of the Department of Technology

EDUCATION

- Doctor of Philosophy Texas A&M University, College Station, Texas (August, 1993).
Major: Industrial Education, Dissertation title: Strategies for
Developing an Exemplary Program in Manufacturing Engineering
Technology.
- Master of Arts Ball State University, Muncie, Indiana (August, 1983). Major:
Industrial Education.
- Bachelor of Science State University of New York, College at Buffalo (May, 1982).
Major: Industrial Arts Education.

PROFESSIONAL EMPLOYMENT HISTORY

- 2014 – Present Tenured Professor and Department Head of the Department of
Technology at The University of Texas at Tyler.
- 2017 – 2019 Interim Department Head of Human Resource Development
- 2005 – 2014 Tenured Professor and Coordinator of Industrial Technology and
Industrial Management at The University of Texas at Tyler.
- 2004 – 2005 Professor and Chair of the Industrial Technology Department at
Texas A&M University-Kingsville.
- 1999 – 2005 Associate Professor and Chair of the Industrial Technology
Department at Texas A&M University-Kingsville.
- 1993 - 1999 Assistant Professor in the Industrial Technology Department at Texas
A&M University-Kingsville. Tenured September 1999.
- 1990 - 1993 Full-time Lecturer in the Manufacturing Engineering
Technology program at Texas A&M University.

PROFESSIONAL EMPLOYMENT HISTORY *continued*

1989 - 1990	Graduate teaching assistant for the Educational Human Resource Development Department at Texas A&M University.
1983 - 1989	Technology Education teacher at Cole Jr.-Sr. High School in San Antonio, Texas.
1982 - 1983	Teaching Assistant and Graduate Fellow for the Department of Industry and Technology at Ball State University.

LIST OF COURSES TAUGHT

The University of Texas at Tyler – 2005-Present

TECH 1301 Technology & Society
TECH 1320 Industrial Materials
TECH 3311 Manufacturing Processes
TECH 3317 Industrial Robotics
TECH 3333 Polymer Processing
TECH 4302 Multiple Technology Systems
TECH 4317 Computer Integrated Manufacturing
TECH 4323 Lean Production
TECH 4343 Advanced Manufacturing Processes
TECH 4350 Topics in Industrial Studies: Robotics
TECH 4351 Topics in Industrial Studies: Programmable Logic Controllers
TECH 4372 Technology Capstone
TECH 5309 Industrial Processes and Materials
TECH 5335 Lean Management
TECH 5317 Computer Integrated Manufacturing
TECH 5366 Value Stream Management
TECH 5329 Trends in Industry
TECH 4370 & 5370 Internship in Technology
TECH 4371 & 5371 Research Internship in Technology

Texas A&M University-Kingsville 1993-2005

IMEN 5301 Industrial Management
IMEN 5335 Industrial Safety and Risk Management
ITEN 1311 Technical CAD
ITEN 2321 Architectural CAD
ITEN 4303 Advanced Computer Graphics
ITEN 3331 Construction Technology
ITEN 3308 Industrial Plastics
ITEN 4336 Industrial Seminar

Texas A&M University-Kingsville 1993-2005 *continued*

ITEN 3300 Manufacturing Technology
ITEN 3399 Industrial Internship
ITEN 4303 Advanced Manufacturing Processes
ITEN 2330 OSHA for General Industry
ITEN 4353 Construction Management
ITEN 4335 Senior Projects

Texas A&M University 1989-1993

ENTC 181 Manufacturing and Assembly Processes I
ENTC 403 Fluid Power Technology
INED 302 Technology, Resources, and Society

Cole Jr.-Sr. High School 1983-1989

Production Systems
Engineering Graphics
Architectural Graphics
Manufacturing Technology
Construction Technology

INTELLECTUAL CONTRIBUTIONS

TEXTBOOKS:

Miller, M. R., Miller, R. (2022). Welding licensing study guide (2nd ed.). New York: McGraw-Hill, pp. 448.

Miller, M. R., Miller, R. (2021). Pipefitters Licensing Study Guide. New York: McGraw-Hill, pp. 288.

Miller, R., & Miller, M. R. (2018). Plumbing: Licensing Exams Study Guide. Homewood, IL: American Technical Publishers, pp. 250.

Miller, R., Miller, M. R. (2018). HVAC Licensing Study Guide (3rd ed.). New York: McGraw-Hill, pp. 470.

Miller, R. & Miller, M. R. (2017). Robots and Robotics: Principles, Systems, and Industrial Applications. New York: McGraw-Hill, pp. 373.

Miller, M. R. & Miller, R. (2016). Carpentry & construction (6th ed.). New York: McGraw-Hill, pp. 767.

TEXTBOOKS continued:

Miller, R., Miller, M. R. (2014). Industrial electricity and motor controls (2nd ed.). New York: McGraw-Hill.

Miller, R., Miller, M. R. (2012). HVAC Licensing Study Guide (2nd ed.). New York: McGraw-Hill.

Miller, R., Miller, M. R. (2012). Air conditioning and refrigeration. New York: McGraw-Hill.

Miller, R., Miller, M. R. (2011). Sheet metal skills: Tools, materials, and processes. Tinley Park, IL: Goodheart-Willcox.

Miller, R., Miller, M. R. (2011). Ugly's plumbing references. Sudbury, MA: Jones & Bartlett.

Miller, M. R. & Miller, R. (2010). Carpentry & construction (5th ed.). New York: McGraw-Hill.

Miller, R., Miller, M. R. (2008). Electricity and electronics for HVAC. New York: McGraw-Hill.

Miller, R., Miller, M. R. (2007). Welding licensing study guide. New York: McGraw-Hill.

Miller, R., Miller, M. R. (2007). HVAC licensing study guide. New York: McGraw-Hill.

Miller, R., Miller, M. R. (2006). Air conditioning and refrigeration. New York: McGraw-Hill.

Miller, M. R., Miller, R., & Baker, G. E. (2005). Miller's guide to home remodeling. New York: McGraw-Hill.

Miller, M. R., Miller, R., & Baker, G. E. (2005). Miller's guide to home wiring. New York: McGraw-Hill.

Miller, M. R., Miller, R., & Baker, G. E. (2005). Miller's guide to home plumbing. New York: McGraw-Hill.

Miller, M. R., & Miller, R. (2004). Carpenter's and builder's math, plans, & specifications (7th ed.). Indianapolis: Wiley.

Miller, M. R., & Miller, R. (2004). Carpenter's and builder's millwork, power tools, & painting (7th ed.). Indianapolis: Wiley.

Miller, M. R., & Miller, R. (2004). Carpenter's and builder's layout, foundation, & framing (7th ed.). Indianapolis: Wiley.

TEXTBOOKS continued:

Miller, M. R., & Miller, R. (2004). Carpenter's and builder's tools, steel square, & joinery (7th ed.). Indianapolis: Wiley.

Miller, R., Miller, M. R. & Leger, E. (2004). Complete building construction (5th ed.). Indianapolis: Wiley.

Miller, R., & Miller, M. R. (2004). Refrigeration: Home and commercial (5th ed.). Indianapolis: Wiley.

Miller, R., & Miller, M. R. (2004). Air conditioning: Home and commercial (5th ed.). Indianapolis: Wiley.

Miller, R., & Miller, M. R. (2004). Pumps and hydraulics (6th ed.). Indianapolis: Wiley.

Miller, R., & Miller, M. R. (2004). Questions and answers for plumbers' examinations (4th ed.). Indianapolis: Wiley

Miller, R., Miller, M. R. & Almond, J. P. (2004). Plumber's pocket manual (10th ed.). Indianapolis: Wiley.

Miller, M. R., Miller, R., & Baker, G. E. (2004). Carpentry & construction (4th ed.). New York: McGraw-Hill.

Miller, R., & Miller, M. R. (2004). Electric motors (6th ed.). Indianapolis: Wiley.

Miller, M.R., & Miller, R. (2002). Electrician's helper (8th ed.). Lawrenceville, NJ: Peterson.

Miller, R., & Miller, M. R. (2002). Electronics: The easy way (4th ed.). Hauppauge, NY: Barron's.

Miller, M. R., Miller, R., & Baker, G. E. (1999). Carpentry & construction (3rd ed.). Hightstown, NJ: McGraw-Hill.

Miller, R., & Miller, M. R. (1995). Electronics: The easy way (3rd ed.). Hauppauge, NY: Barron's.

Miller, R., & Miller, M. R. (1993). Small gasoline engines (2nd ed.). New York: Macmillan.

TEXTBOOKS continued:

Miller, R., & Miller, M. R. (1993). Small electric motors (2nd ed.). New York: Macmillan.

Miller, R., & Miller, M. R. (1992). Electric motor controls. Englewood Cliffs, NJ: Prentice-Hall.

REFEREED JOURNAL ARTICLES:

Jones, D. & Miller, M. R. (submitted for publication, 2025). Strategies for Student Engagement in Online Technical Courses. Journal of Technology, Management, and Applied Engineering.

Miller, M. R. & Donaldson, E. S. (Fall/Winter 2016). Do certifications make a difference with the recruitment of graduate students for Industrial Management Programs? Technology Interface International Journal.

Lawrence, H. & Miller, M. R. (2015). The ATMAE lean six sigma certification exam: Why it matters to you? Journal of Technology, Management, and Applied Engineering, 31(3),1-19.

Lawrence, H. & Miller, M. R. (June, 2014). A historical perspective of the evolution of technology education, International Journal on Integrating Technology in Education, 3 (2), 1-7.

Miller, M. R. (April, 2011). Manufacturing education: Evolving to challenge adversity and public sentiment, Journal of Industrial Technology, 27(2), 1-8.

Marsh, B. E. & Miller, M. R. (June, 2004). Dimensional metrology: A perspective on structure and lab integration, Journal of Industrial Technology, 20(3), 1-8.

Miller, M. R. (May, 2000). The status of NAIT: Perceptions of industrial technology department chairs, Journal of Industrial Technology, 16(3), 1-8.

Miller, M. R. (1996). Characteristics of exemplary manufacturing engineering technology programs, Journal of Engineering Technology, 13(1), 8-13.

Miller, M. R. & Leon, V. J. (1993). Using interactive computer simulation in the quality assurance laboratory, Journal of Engineering Technology, 10(2), 20-25.

REFEREED PROCEEDINGS & PRESENTATIONS:

Miller, M. R., Jones, D. R., Lawrence, H. R., & Griffin, R. (2024). *The Development and Design of an Inexpensive CIM Cell to Teach Industrial Robotics*. Association of Technology, Management, and Applied Engineering Conference, Las Vegas, NV.

- Miller, M. R., Lawrence, H R., & Jones, D. R. (2023). How to Use the ATMAE Certification Review and Training Sessions to Supplement Your Courses. Association of Technology, Management, and Applied Engineering Conference, Atlanta, GA.
- Jones, D. R., Miller, M. R., & Lawrence, H R. (2023). Proven Motivational Techniques for Online Courses. Association of Technology, Management, and Applied Engineering Conference, Atlanta, GA.
- Miller, M. R., Lawrence, H R., Jones, D. R., & Griffin, R. (2022). The New ATMAE Certified Manufacturing Specialist Online Exam Preparation Course. Association of Technology, Management, and Applied Engineering Conference, Louisville, KY.
- Jones, D. R., Miller, M. R., Lawrence, H R., & Griffin, R. (2022). Tricks to Motivating Your Students to Succeed in Online Technical Courses. Association of Technology, Management, and Applied Engineering Conference, Louisville, KY.
- Jones, D. R., Miller, M. R. (2021). The Impact of COVID-19 on the Undergraduate Work Ethic: Strategies to Reverse this Trend. Association of Technology, Management, and Applied Engineering Conference, Orlando, FL.
- Lawrence, H R., Miller, M. R., & Griffin, R. (2021). The ATMAE Learning Management System: Your User Friendly Online Certification and Training Center. Association of Technology, Management, and Applied Engineering Conference, Orlando, FL.
- Miller, M. R., Lawrence, H R., & Griffin, R. (2020). Insights to a Successful ATMAE Accreditation: Tips to Keeping Standards in Compliance. Association of Technology, Management, and Applied Engineering Conference, Virtual.
- Miller, M. R., Lawrence, H R., & Griffin, R. (2019). Surviving the New ATMAE 2019 Accreditation Standards: What is New and How it Must Be Addressed. Association of Technology, Management, and Applied Engineering Conference, Charlotte, NC.
- Miller, M. R., & Lawrence, H. (2018). The New ATMAE Learning Management System: Streamlining Certification and Training Association of Technology, Management, and Applied Engineering Conference, Kansas City, MO.
- Miller, M. R., & Lawrence, H. (2017). Does Offering Certifications Assist in the Recruitment of Undergraduate Majors? Association of Technology, Management, and Applied Engineering Conference, Cincinnati, OH.
- Miller, M. R. and Donaldson, E. S. (2016). Do certifications make a difference with the recruitment of graduate students for technology-related programs? IAJC-ISAM Joint International Conference. Orlando, FL.

REFEREED PROCEEDINGS & PRESENTATIONS *continued*:

Miller, M. R., Lawrence, H. R., Donaldson, E. S., & Fazarro, D. E. (2016). The ATMAE lean six sigma prep course: Affordable training just a click away. Association of Technology, Management, and Applied Engineering Conference, Orlando, FL.

Lawrence, H. R., Miller, M. R., Donaldson, E. S., & Fazarro, D. E. (2016). The defined, measured, analyzed, and improved ATMAE lean six sigma exam: What you need to know for the future. Association of Technology, Management, and Applied Engineering Conference, Orlando, FL.

Donaldson, E. S., Miller, M. R., Lawrence, H. R., & Fazarro, D. E. (2016). The unintended consequences resulting from superior preparation of students in technology for industry; diverting the pipeline away from advanced degrees and academic careers. Association of Technology, Management, and Applied Engineering Conference, Orlando, FL.

Miller, M. R., & Lawrence, H. (2016). The Development of an affordable lean six sigma certification and assessment instrument forged from a strong alliance between academia and industry. Sixth International Conference on Lean Six Sigma. Edinburgh, Scotland.

Lawrence, H. Miller, & M. R., (2016). An Academic Model for Significantly Increasing the Number of Lean Six Sigma Qualified Professionals. Sixth International Conference on Lean Six Sigma. Edinburgh, Scotland.

Miller, M. R., & Lawrence, H. (2015). ATMAE certification and training: What does training bring to the table? Association of Technology, Management, and Applied Engineering Conference, Pittsburgh, PA.

Lawrence, H. Miller, & M. R., (2015). The ATMAE lean six sigma certification exam: First year status report. Association of Technology, Management, and Applied Engineering Conference, Pittsburgh, PA.

Reily, S. & Miller, M. R. (2015). Fast-track to developing supply chain management professionals. TPA Supply Chain Conference, Phoenix, Arizona.

Miller, M. R., & Lawrence, H. (2014). The ATMAE assessment and certification exams: What's new to make your life easier?. Association of Technology, Management, and Applied Engineering Conference, St. Louis, MO.

Lawrence, H. Miller, & M. R., (2014). The ATMAE lean six sigma certification exam: Now available and ready for use. Association of Technology, Management, and Applied Engineering Conference, St. Louis, MO.

REFEREED PROCEEDINGS & PRESENTATIONS *continued*:

- Miller, M. R., Lawrence, H., & Fazarro, D. (2013). Strategies for passing the ATMAE certification exams. Association of Technology, Management, and Applied Engineering Conference, New Orleans, LA.
- Miller, M. R., Fazarro, D. & Lawrence, H. (2013). The Genesis of a nanotechnology workforce: How will it impact manufacturing and curricula? Association of Technology, Management, and Applied Engineering Conference, New Orleans, LA.
- Miller, M. R., Doggett, M. & Fernandes, M. (2013). Major changes for ATMAE certification: New platform, new exam modules, greater industry involvement. Association of Technology, Management, and Applied Engineering Conference, New Orleans, LA.
- Lawrence, H. & Miller, M. R. (2013). The ATMAE Lean Six Sigma Certification Exam: Revised Content, Timeline to Completion, and Accreditation. Association of Technology, Management, and Applied Engineering Conference, New Orleans, LA.
- Miller, M. R., Lawrence, H., & Fazarro, D. (2012). The ATMAE Lean Six Sigma Exam: Who, What, Where, and Why. Association of Technology, Management, and Applied Engineering Conference, Nashville, TN.
- Roberts, P. & Miller, M. R. (2012). How to Manage Multiple Accreditations Efficiently and Effectively. Association of Technology, Management, and Applied Engineering Conference, Nashville, TN.
- Lawrence, H., Miller, M. R., & Fazarro, D. (2012) Why and How to Rejuvenate an ATMAE Student Chapter: What's In It for Me? Association of Technology, Management, and Applied Engineering Conference, Nashville, TN.
- Miller, M. R., Lawrence, H., & Fazarro, D. (2011). Where does nanotechnology fit into a general technology program's curriculum? Association of Technology, Management, and Applied Engineering Conference, Cleveland, Ohio.
- Miller, M. R. & Lawrence, H. (2011). The CTM exam: Revised, restructured, and rejuvenated. Association of Technology, Management, and Applied Engineering Conference, Cleveland, Ohio.
- Lawrence, H. & Miller, M. R. (2011). How to offer online quality coursework without losing that traditional face-to-face feel. Association of Technology, Management, and Applied Engineering Conference, Cleveland, Ohio.

REFEREED PROCEEDINGS & PRESENTATIONS *continued*:

Fazarro, D., Kornegay, A. & Miller, M. R. (2011). Learning through skits: A pilot study using contextual learning to achieve learning outcomes in safety education. Association of Technology, Management, and Applied Engineering Conference, Cleveland, Ohio.

Miller, M. R., Fazarro, D., & Lawrence, H. (2010). The technical professional certification exam: Development, content, and implications. Association of Technology, Management, and Applied Engineering Conference, Panama City Beach, Florida.

Miller, M. R., Fazarro, D. & Lawrence, H. (2010). Increasing graduate enrollment: generalizing industrial curricula to attract all majors. Association of Technology, Management, and Applied Engineering Conference, Panama City Beach, Florida.

Martin, J. & Miller, M. R. (2010). Developing an internationally recognized certification exam for construction managers. Proceedings Paper of the Association of Technology, Management, and Applied Engineering Conference, 43-46.

Miller, M.R. (2009). Marketing your manufacturing/industrial technology program as clean, neat and glamorous. Association of Technology, Management, and Applied Engineering Conference, Louisville, Kentucky. (Awarded best paper for the Manufacturing Track)

Miller, M.R. & Heidari, F. (2008). The NAIT manufacturing specialist exam: A live demonstration and detailed look of its content. National Association of Industrial Technology Conference, Nashville, Tennessee.

Miller, M.R. & Heidari, F. (2007). The NAIT manufacturing specialty certification exam: Final draft. National Association of Industrial Technology Convention, Panama City, Florida.

Miller, M.R. & Heidari, F. (2006). The making of the NAIT manufacturing specialty certification exam. National Association of Industrial Technology Convention, Cleveland, Ohio.

Heidari, F. & Miller, M.R. (2006). Mastercam X update and demonstration. National Association of Industrial Technology Convention, Cleveland, Ohio.

Miller, M.R., & Heidari, F. (2005). An overview of the long-awaited study guide developed for the NAIT certification exam. NAIT Convention, St. Louis, Missouri.

Heidari, F. & Miller, M.R. (2005). Design and implementation of a scoring rubric for industrial technology courses. Proceedings of the 38th Annual Convention of the National Association of Industrial Technology,

REFEREED PROCEEDINGS & PRESENTATIONS *continued*:

Miller, M. R., Marsh, B. E., & Heidari, F. (2004). How to change the NAIT certification exam to make it a benchmark for all industrial technology programs: A survey of industrial technology chairs. Proceedings of the 37th Annual Convention of the National Association of Industrial Technology, 17-21.

Miller, M. R., Marsh, B. E., & Heidari, F. (2003, November). The new image for industrial technology: A mode for excellence and growth, National Association of Industrial Technology Convention, Nashville, Tennessee.

Miller, M. R. & Marsh, B. E. (2002, November). Developing an inexpensive departmental CD for prospective students. National Association of Industrial Technology Convention, Panama City, Florida.

Miller, M. R. (2001, November). Industrial technology vs. industrial management: Is there a difference and which is more recognized? National Association of Industrial Technology Convention, Dearborn, Michigan.

Heidari, F., Marsh, B. E., & Miller, M. R. (2001, November). Converting bitmap images to vector files for CAD/CAM integration. National Association of Industrial Technology Convention, Dearborn, Michigan.

Heidari, F., Marsh, B. E., & Miller, M. R. (2001, November). Design and layout of a manufacturing cell. National Association of Industrial Technology Convention, Dearborn, Michigan.

Marsh, B. E., Heidari, F., & Miller, M. R. (2001). Assessing and benchmarking efficiency and effectiveness within manufacturing and service operations. Proceedings of the 34th Annual Convention of the National Association of Industrial Technology, 150-154.

Miller, M. R., Marsh, B. E., & Heidari, F. (2000). Recruitment and retention: What really works? Proceedings of the 33rd Annual Convention of the National Association of Industrial Technology, 49-53.

Marsh, B. E., Heidari, F., & Miller, M. R. (2000). Enhancing statistical quality control (SQC) instruction through the use and application of spreadsheet programs and templates. Proceedings of the 33rd Annual Convention of the National Association of Industrial Technology, 218-222.

REFEREED PROCEEDINGS & PRESENTATIONS *continued*:

Miller, M. R. (1999). Is NAIT prepared for the next millennium? Proceedings of the 32nd Annual Convention of the National Association of Industrial Technology, 33-37.

Miller, M. R. (1997). Exemplary programs in manufacturing engineering technology: Who, what, where, and why? Proceedings of the American Society for Engineering Education Gulf-Southwest Annual Conference, 482-487.

Miller, M. R. & Nelson, M. S. (1997, December). What are time compression technologies and how do they affect technology education? American Vocational Association Convention, Las Vegas, Nevada.

Miller, M. R. (1997, October). Time compression technologies: A competitive advantage for industry & industrial technologists. National Association of Industrial Technology Convention, Atlanta, Georgia.

Miller, M. R. (1996). Virtual reality: Desktop applications for manufacturing education. Proceedings of the SME International Conference on Education in Manufacturing, 3, 395-7.

Miller, M. R. (1995, October). Virtual reality: Desktop applications for industrial technology curricula. National Association of Industrial Technology Conference, Savannah, Georgia.

JOURNAL & CONFERENCE PAPER REVIEW ACTIVITIES:

2016- Present Reviewer for the International Journal of Productivity and Performance Management.

2008- Present Reviewer for ATMAE Manufacturing Division abstracts & papers.

2011- Present Reviewer for ATMAE Nanotechnology Division abstracts & papers.

2009- 2011 Associate Editor for The Journal of Technology Studies.

RESEARCH AND CREATIVE ACTIVITIES:

National Science Foundation (October 16, 2002): Not funded. Proposal entitled, *Expediting Technology Education Teacher Certifications*, for \$443,540 to fund a Technology Education Laboratory and student stipends. Principal Investigator.

RESEARCH AND CREATIVE ACTIVITIES continued:

National Science Foundation (October 9, 2002): Not funded. Proposal entitled, *Engineering for Physical Science, Mathematics and Engineering Teachers*, for \$822,605 to fund a new Engineering Education degree for preparing secondary teachers.
Co-Principal Investigator.

Society of Manufacturing Engineers Education Foundation (June 1998): Awarded \$62,375 worth of computer software for use in manufacturing related coursework.

Society of Manufacturing Engineers Education Foundation (June 1995): Awarded \$475,600 worth of computer software for use in manufacturing related coursework.

Higher Education Assistance Funds, College of Engineering (1998-2002): Awarded \$142,527 over a four year period for equipment for lecture and laboratory courses.

Faculty Development Fund (December 1993): Awarded \$374 for assistance in travel to attend faculty development training in Geometric Dimensioning and Tolerancing in Chicago, Illinois.

PROFESSIONAL GROWTH ACTIVITIES:

Member

American Society for Engineering Education (ASEE)

Association for Career and Technical Education (ACTE)

Association of Technology, Management, and Applied Engineering (ATMAE)

Epsilon Pi Tau (EPT) Honor society for professions in technology

Institute of Electrical and Electronics Engineers (IEEE) Computer and Nanotechnology

Society of Manufacturing Engineers (SME)

Leadership Roles in Professional Societies

Chair, Association of Technology, Management, and Applied Engineering Conference Committee. Term: 2023-2025.

Chair, Association of Technology, Management, and Applied Engineering Certification Board. Terms: 2008-Present.

Leadership Roles in Professional Societies

Member, Association of Technology, Management, and Applied Engineering Certification Board. Terms: 2000-2008.

President, Association of Technology, Management, and Applied Engineering Manufacturing Division. Terms: 2008-2010.

Member of the National Association of Industrial Technology Certification Board. Terms: 2000-2007.

Member of the Society of Manufacturing Engineers Student Relations Subcommittee Term: 2004-2008.

Society of Manufacturing Engineers - 2008 – 2016, Chair for Chapter 126 in East Texas

Society of Manufacturing Engineers - 2003, Chair for Chapter 121 in San Antonio, TX

Society of Manufacturing Engineers - 1999, Chairman for Chapter 121 in San Antonio, Texas

Society of Manufacturing Engineers - 1998, Chair-elect for Chapter 121 in San Antonio, Texas

Society of Manufacturing Engineers faculty advisor for The University of Texas at Tyler student chapter S358 from 2006 - present (increased membership from 0 to 26)

Society of Manufacturing Engineers faculty advisor for TAMUK student chapter S264 from 1994 - 2005 (increased membership from 29 to 85)

Professional Society Meetings

Attended and presented at all the ATMAE & NAIT annual conferences from 1993-present.

Attended the Society of Manufacturing Engineers Annual Convention in Dallas, TX on May 29-June 1, 2002.

Attended the 1997 ASEE Gulf-Southwest Annual Conference in Houston, TX on March 24-25, 1997.

Attended the American Vocational Association Convention in Las Vegas, Nevada on December 10-14, 1997.

Professional Society Meetings *continued*:

Attended the Society of Manufacturing Engineers Annual Convention in Cleveland, OH on May 29-31, 1998.

Attended the Society of Manufacturing Engineers Regional Conference in Dallas, TX on November 12-14, 1998.

Attended all of the Society of Manufacturing Engineers San Antonio Chapter 121 meetings from November of 1993 – June 2005.

SERVICE ACTIVITIES

Committee Work

The University of Texas at Tyler (2005-Present)

Member of the college Graduate Curriculum and Assessment Committee, 2023-2025

Chair of the university Undergraduate Council 2021-2023

Chair of the college Undergraduate Curriculum and Assessment Committee, 2019-2022

Member of the College Student Awards and Scholarship Committee, 2019-2021

Chair of the University Undergraduate Council, 2014- 2019

Member of the CBT Graduate Curriculum and Standards Committee, 2016-2018

Chair if the CBT Tenure and Promotion Committee, 2015

Member of the University Undergraduate Council, 2013-2014

Member of the University Undergraduate Council Subcommittee: Undergrad. Curriculum

Chair of the CBT Undergraduate Curriculum Committee, 2013-2016

Chair of the CBT Faculty Governance Committee 2013-2016

Treasurer for the Faculty Senate, 2012-2015.

The University of Texas at Tyler (2005-Present) *continued*:

Member of the Department's Tenure and Promotion Committee, 2009-2014.

Member of the Department's Curriculum Committee 2005-Present.

Chair of the Industrial Technology Re-accreditation Committee, 2010- present

Member of the CBT Promotion and Tenure Committee, 2011-2013.

Chair of the University Faculty Affairs Committee, 2010-2011.

Chair of the School of HRD & Technology SACS Committee, 2007-2010.

Chair-Elect of the University Faculty Affairs Committee, 2008-2011.

Member of the University Graduate Council, 2009-2012.

Member of the College of Business & Technology Leadership Team, 2009-2010.

Member of the University Graduate Council from 2009-2012.

Chair of the University Information Technology Committee from 2007-2008.

Member of the University Information Technology Committee from 2005-2007.

Member of the Provost Search Committee from 2007-2008.

Texas A&M University-Kingsville (1993-2005)

Member of the Dean of the College of Engineering Search Committee from 2001-2002.

Member of the College of Engineering Recruitment Committee from 2004-2005.

Member of the university's SACS Technology committee from August 2002-2005.

Chair of the department's curriculum committee 1999-present.

Chair of the university 1997-2000 Calendar Committee.

Chair of the 1997-1998 search committee for a full-time departmental faculty member.

Texas A&M University-Kingsville (1993-2005) *continued*:

Member of the College of Engineering Curriculum Committee from 1995 – 2005.

Member of the Dean of the College of Business Search Committee from 1998-1999.

Member of the BAAS Advisory Committee from 1995-2005.

Member of the Council of Chairs Committee from 1999-2005.

Member of the Accessibility Compliance Committee from 1999-2005.

Member of the Engineering Ethics Committee in 1994.

Student Organizations:

Co-Trustee for Epsilon Pi Tau – Delta Gamma Chapter (Honor society for technology professionals).

Faculty advisor for the Association of Technology, Management, and Applied Engineering student chapter at The University of Texas at Tyler, 2005-2011.

Faculty advisor for the Society of Manufacturing Engineers student chapter S358, 2006-Present. Established new chapter in 2006.

Faculty advisor for the Society of Mfg. Engineers student chapter S264, 1993-2005.

Faculty advisor and Trustee for Epsilon Pi Tau - Alpha Nu chapter, 2000-2005. Reactivated the chapter in April, 2000.

Installed the Epsilon Pi Tau, Delta Gamma chapter at The University of Texas at Tyler in March, 2005.

Awards and Certifications

2025 Certified Trainer for FESTO Introduction to Mechatronics

2024 Certified Lean Six Sigma Green Belt Healthcare Professional by SSGI

2022 Epsilon Pi Tau Distinguished Service Award

Awards and Certifications *continued*:

2021 Universal Robots Certified Trainer status

2020 Yaskawa Motoman Certified Trainer authorization

2018 FANUC robotics certification in vision systems

2018 Awarded the prestigious Distinguished Service Citation from the international honor society for professions in technology, Epsilon Pi Tau.

2017 Charles W. Keith Award, is administered by the Chair of the Board. It should be noted that this award is not a yearly award, but will be given only when an individual is judged by the current Chair of the Board and two past chairs to have displayed exemplary accomplishments toward the significant development of ATMAE over an appreciable period of time.

2014 Phi Kappa Phi Member, All-discipline Honor Society, The University of Texas at Tyler Chapter

2012 Recipient of the ATMAE Faculty Excellence Award

2012 Earned Lean Six Sigma Black Belt Certification

2012 Recipient of the Faculty Senate Service Award

2012 Recipient of the ATMAE Outstanding Faculty Excellence Award

2012 Recipient of the College of Business & Technology Faculty Service Award

2012 Authorized Certified Trainer for FANUC robots (CERT)

2011 Earned Certified Senior in Engineering Graphics status

2010 Earned Certified Senior Technical Professional status.

2009 Who's Who in America – 63rd Edition

2009 Earned Certified Manufacturing Specialist status.

2009 Earned Certified Senior Technology Manager status

Awards and Certifications *continued*:

2007 Earned Certified Senior Industrial Technologist status.

2006 Recipient of the National Association of Industrial Technology Outstanding Professor of Technology Award.

2005 Awarded the prestigious Laureate Citation from the international honor society for professions in technology, Epsilon Pi Tau.

2001-2004 OSHA Authorized Outreach Trainer

1995 GD&T Level 1 Training by SME

1988 Texas permanent teaching certificate

1982 New York state provisional teaching certificate

OTHER PROFESSIONAL ACTIVITIES NOT COVERED PREVIOUSLY:

Prepared the self-study report for re-accreditation of the Industrial Technology program at The University of Texas at Tyler by the Association of Technology, Management, and Applied Engineering in the all-new 2023 outcomes format.

Prepared the self-study report for initial accreditation of the Industrial Management graduate program at The University of Texas at Tyler by the Association of Technology, Management, and Applied Engineering in the all-new 2023 outcomes format.

Prepared the self-study report for re-accreditation of the Industrial Technology program at The University of Texas at Tyler by the Association of Technology, Management, and Applied Engineering in the all-new 2019 outcomes format.

Prepared the self-study report for initial accreditation of the Industrial Management graduate program at The University of Texas at Tyler by the Association of Technology, Management, and Applied Engineering in the all-new 2019 outcomes format.

OTHER PROFESSIONAL ACTIVITIES NOT COVERED PREVIOUSLY *continued:*

Assisted with and coordinated the external review self-study report for the Human Resource Development master's program at The University of Texas at Tyler, 2019).

Assisted with and coordinated the external review self-study report for the Human Resource Development doctoral program at The University of Texas at Tyler, 2019).

Purchased and setup new equipment for the new College of Business building as well as packed and setup existing equipment from the HPR building. Spent countless hours drawing up the plans and meeting with architects about the new laboratory requirements.

Purchased and setup new equipment in order to create a brand new manufacturing laboratory at the Longview University Center.

Gave numerous presentations to local organizations and industries regarding the start of the new Industrial Technology program at the Longview University Center.

Developed the Supply Chain Management certificate program for the graduate program in Industrial Management in 2014.

Authored the ATMAE Certified Lean Six Sigma Online Study Guide in 2014.

Coordinated and assisted with the development of the ATMAE Lean Six Sigma certification exam from 2009-2014.

Developed the Lean Six Sigma Black Belt certificate program for the graduate program in Industrial Management in 2013.

Annually revise the curricula for the Industrial Technology and Industrial Management programs in order to meet ATMAE accreditation standards.

Prepared the self-study report for re-accreditation of the Industrial Technology program at The University of Texas at Tyler by the Association of Technology, Management, and Applied Engineering (reaccredited with no partial or non-compliances, 2012).

Assisted with the development of the new ATMAE Certified in Engineering Graphics exam from 2009- 2011.

OTHER PROFESSIONAL ACTIVITIES NOT COVERED PREVIOUSLY *continued:*

Coordinated, developed, and prepared the new online ATMAE Technical Professional Certification exam from 2007-2010.

Authored the ATMAE Certified Technical Professional online Study Guide in 2010.

Coordinated, developed, and prepared the new online ATMAE Manufacturing Specialist Certification exam from 2005-2009.

Authored the ATMAE Certified Manufacturing Specialist online Study Guide in 2008.

Authored the ATMAE Certified Technology Manager online Study Guide in 2006.

Ordered and setup new equipment, tables, chairs, cabinets, tool cribs, etc. for the manufacturing laboratory in rooms HPR 256 and 261 in 2005-2012.

Assisted and developed assessment instruments and other documents essential for full (6 year) ATMAE (NAIT) accreditation status for the HRD & Technology Department at UT Tyler (2005).

Developed and prepared the proposal for a graduate program in Industrial Management for the Industrial Technology Department at Texas A&M University-Kingsville which was approved by The Texas Higher Education Coordinating Board on February 19, 2004.

Developed and prepared the Industrial Technology Department at Texas A&M University-Kingsville's Self Study Report for Accreditation by the National Association of Industrial Technology (awarded full accreditation of 6 years from 2003-2009).