

RANDELL FARLEY, DBA

Assistant Professor, Technology | Soules College of Business | The University of Texas at Tyler
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ACADEMIC PROFILE

Assistant Professor of Technology with a 31-year industry career spanning quality, supply chain, procurement, project management, manufacturing operations, product lifecycle management, and continuous improvement. Research and teaching integrate applied engineering practice with project management, quality systems, 3PL transition risk, tacit knowledge, workforce capability, digital transformation, and artificial intelligence. Repeatedly selected for cross-functional leadership assignments during industry career, including enterprise PLM transformation, operations leadership, and global aftermarket quality and warranty responsibility. Author of two applied project management books and an active researcher in project governance, quality, supply chain, knowledge transfer, and technology-enabled organizational improvement.

EDUCATION

Liberty University <i>Doctor of Business Administration, Supply Chain Management & Logistics</i> Dissertation: <i>Exploring the Transition to 3PL and Influence on Supply Chain Disruptions, Part Quality, and Customer Service in the Home Appliance Replacement Part Industry</i>	February 2025
Liberty University <i>Master of Business Administration, Supply Chain Management & Logistics</i>	December 2021
The University of Texas at Tyler <i>Master of Science, Industrial Management</i>	May 2008
Texas A&M University-Commerce <i>Bachelor of Science, Manufacturing Engineering Technology</i>	December 1994

ACADEMIC APPOINTMENTS

The University of Texas at Tyler, Soules College of Business <i>Assistant Professor, Technology</i>	January 2026-Present
The University of Texas at Tyler, College of Business and Technology <i>Adjunct Professor</i> • Taught graduate and undergraduate project management courses and contributed to curriculum design and development. • Integrated industry case studies and applied project management practices into course instruction and student mentoring.	2018-2020

RESEARCH INTERESTS

- Project management education, stage-gate governance, and transfer of learning to practice
- Quality management, supplier risk, PPAP/FAI, and continuous improvement
- Third-party logistics (3PL), supply chain disruption, operational recovery, and distribution quality
- Tacit knowledge, capability drift, knowledge transfer, and organizational learning

- Digital transformation, technology integration risk, and artificial intelligence in applied technology
- Leadership development, training transfer, and the values-behavior gap

AUTHORED BOOKS

- Farley, R. (2026, April 14). *Applied Project Management: A Gate Review Framework for Professional Project Management*. Independently published. ISBN-13 979-8257462023. 238 pp.
- Farley, R. (2026, April 29). *PMP Certification Prep: A Gate Review Approach to the 2026 Exam*. Independently published. ISBN-13 979-8259425842. 229 pp.

PEER-REVIEWED PUBLICATION

- Farley, R., & Ali, M.** (2026). From Lean Six Sigma to DMAIC 4.0: Evidence-based validation of digitally enabled continuous improvement in manufacturing systems. *Quality Management Journal*. Advance online publication. <https://doi.org/10.1080/10686967.2026.2717194>

MANUSCRIPTS UNDER REVIEW

- Farley, R.** Quality Cascades in 3PL Networks: An Applied Engineering Case Study of Multi-Tier Disruption. Under review at *Journal of Technology, Management, and Applied Engineering*.
- Farley, R.** Technology Interface Risk Management (TIRM): A Framework for Digital System Integration in 3PL Environments. Under review at *Journal of Technology, Management, and Applied Engineering*.
- Farley, R.** Restoring Operational Capability. Under review at *Industrial Management & Data Systems*.
- Farley, R., & Lawrence, H.** Applied Engineering for Distribution Quality: Extending PPAP to Reduce Supplier Risk. Under review at *Journal of Technology, Management, and Applied Engineering*.
- Farley, R.** Tacit Capability Drift. Under review at *International Journal of Productivity and Performance Management*.

MANUSCRIPTS IN PROGRESS

- Farley, R., & Lawrence, H.** Knowing Is Not Doing: How a Stage-Gate Framework Drives Transfer in Project Management Education. Manuscript in preparation.
- Farley, R., & Fazarro, D.** Determining Gaps of Quality Knowledge: A New Framework for Transition Risk. Manuscript in preparation.
- Farley, R., Lawrence, H., & Littell, N.** First Article Inspection as a Boundary Control in Distribution Quality Systems. Manuscript in preparation.

UPCOMING CONFERENCE PRESENTATION

- Farley, R.** (2026, November). From Lean Six Sigma to DMAIC 4.0: Evidence-based validation of digitally enabled continuous improvement in manufacturing systems. Scheduled presentation at the *Association of Technology, Management, and Applied Engineering (ATMAE) Annual Conference*, New Orleans, Louisiana, November 18-20, 2026.

SELECTED COURSES TAUGHT

The University of Texas at Tyler

Undergraduate

- TECH 1303 - Introduction to Engineering Graphics
- TECH 3331 - Project Management
- TECH 4325 - Procurement Management

The University of Texas at Tyler

Master's

- TECH 5331 - Project Management
- TECH 5334 - Advanced Project Management

Wayland Baptist University

Doctoral Business Program

- MGMT 6301 - Theoretical Foundations of Management

CURRICULUM AND PROGRAM DEVELOPMENT

Applied Artificial Intelligence (TECH)

In development

Course development, planned for 2027

- Developing an applied technology course focused on practical AI use, AI-enabled applications, automated workflows, responsible implementation, and capstone integration.

ATMAE Project Management Certification

In development

Co-developer with David Stec, PhD

- Contributing to development of a professional project management certification for the Association of Technology, Management, and Applied Engineering.

UNIVERSITY AND PROFESSIONAL SERVICE

Technology Advisory Board, The University of Texas at Tyler

2018-Present

Member

Strategic Planning Committee, Soules College of Business

Member

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

Member

CERTIFICATIONS AND PROFESSIONAL CREDENTIALS

Six Sigma Black Belt Certification, Trane Technologies

2004

Six Sigma Green Belt Certification, Trane Technologies

2002

Project Management Certification, Kepner-Tregoe

1999

SELECTED INDUSTRY EXPERIENCE

Trane Technologies / Ingersoll Rand

1995-March 2026

Progressive leadership roles in quality, supply chain, procurement, project management, manufacturing, operations, and enterprise transformation

Completed a 31-year career with progressive responsibility across manufacturing and global business functions. Repeatedly selected for special assignments and leadership roles requiring

cross-functional execution, technical problem solving, organizational change, and business performance improvement.

Selected Leadership and Business Impact

April 2025-March 2026

- Led quality and warranty activities for a \$1 billion global replacement-parts business supporting commercial and residential products.
- Provided quality leadership and supplier development oversight across a global supply base of more than 3,000 part suppliers.
- Supported implementation of the Trane Precedent product platform, including manufacturing expansion for a \$55 million redesign program.
- Managed approximately \$3 million in work-cell and process implementation expenditures and supported implementation of a \$2 million automated assembly line.
- Led Six Sigma productivity and scrap-reduction initiatives exceeding \$1 million in savings and mentored 12 Green Belts.

Trane Global Parts Quality and Warranty Leader

July 2018-April 2025

Trane Technologies, Tyler, Texas

- Directed quality and warranty priorities for the global parts business and coached cross-functional teams in Aftermarket Engineering and Distribution.
- Served on core teams supporting product development and launch of residential, commercial, and buy/sell parts, including supplier PPAP readiness.
- Provided technical guidance on more than 100 field issues annually involving part failures, warranty claims, supplier corrective action, and development plans.

Procurement Program Manager

June 2015-July 2018

Ingersoll Rand Corporate, Davidson, North Carolina (office in Tyler, Texas)

- Led procurement, NPD, productivity, and continuous-improvement projects using cross-functional implementation plans, milestone management, and gate reviews.
- Managed procurement financial metrics, productivity forecasts, supplier readiness, capacity, shortages, sourcing alignment, and production ramp-up activities.
- Coordinated value analysis/value engineering, supplier rationalization, localization, and continuous-improvement ideation across plant and commodity teams.

Lead Supplier Development Engineer

October 2012-May 2015

Ingersoll Rand Corporate, Davidson, North Carolina (office in Tyler, Texas)

- Conducted supplier quality, technical, and EHS assessments supporting sourcing decisions and supplier onboarding.
- Provided technical leadership in process development, PFMEA, measurement systems, control plans, error proofing, PPAP, launch containment, and Run @ Rate.
- Served as a quality subject-matter expert across multiple commodities and led supplier performance improvement, corrective action, and internal training.

Supplier Development Engineer

May 2006-October 2012

Trane Residential, Tyler, Texas

- Managed supplier development and quality activities across steel, fasteners, fabrication, electrical heat, non-ferrous materials, controls, packaging, and branded products.
- Served as APQP/program quality lead for large programs requiring multiple PPAP submissions and led major quality disruption response for sourced and branded products.
- Led internal training on PPAP, supplier corrective action, and supplier development processes.

NextGen PLM Process Owner, Special Leadership Assignment**April 2005-March 2006***Trane / Ingersoll Rand*

- Selected for a special leadership assignment supporting a company-wide Product Lifecycle Management transformation.
- Led process ownership activities for the transition from Windchill to Siemens Teamcenter and helped standardize product-data and cross-functional PLM workflows.
- Supported system implementation, process adoption, and organizational transition across affected functions.

Six Sigma Black Belt**2004-2006***Trane Commercial, Springhill, Louisiana*

- Led productivity and scrap-reduction projects generating more than \$1 million in savings.
- Conducted Six Sigma training, mentored 12 Green Belts, and led rapid-improvement and Lean events.

Operations Manager**2002-2004***Trane Commercial, Springhill, Louisiana*

- Selected for the Operations Manager role with leadership responsibility across Operations, Engineering, Quality, Maintenance, and Procurement, with accountability for safety, quality, production, cost, staffing, labor relations, employee development, and facility performance.
- Held organizational responsibility for approximately 260 employees, including production supervisors and team leaders, and served as interim plant manager during plant manager absences.

Process Engineer**1999-2002***Trane Commercial, Lynn Haven, Florida*

- Supported manufacturing implementation of the Trane Precedent product redesign and launch, including facility expansion, process development, capital equipment, tooling, outsourcing, and supplier partnerships.
- Completed and supported Six Sigma projects producing measurable improvements in first-pass yield, ergonomics, productivity, and manufacturing cost.
- Planned and implemented manufacturing systems and processes supporting domestic and international product launch requirements.

Production Supervisor**1995-1999***Trane Residential, Tyler, Texas*

- Supervised high-volume HVAC assembly and subassembly operations with responsibility for safety, quality, productivity, staffing, and process capacity.
- Managed four team leaders and approximately 100 direct reports across assembly and fabrication operations.

MILITARY SERVICE

Texas Army National Guard, Heavy Equipment Operator**1991-1997****United States Marine Corps Reserve, Supply Administration****1989-1991**