

David M. Parsley II, Ph.D.

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EDUCATION

Ph.D., Mechanical Engineering , University of Kentucky	2018
M.S., Manufacturing Systems Engineering , University of Kentucky	2007
B.S., Mechanical Engineering , University of Kentucky	2006

CERTIFICATES

Lean Systems Graduate Certificate, University of Kentucky	2011
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TEACHING EXPERIENCE

University of Kentucky

Instructor —Lean Ergonomics Certification	2019—Present
Instructor —EGR 390: SEAM Student True Lean Certification	2017—Present
Instructor —True Lean Systems Certification	2013—Present
Guest Lecturer —ME 563: 8 Step Problem Solving	2017, 2013, 2011
Guest Lecturer —ME 565: 8 Step Problem Solving	2015
Guest Lecturer —EGR 199: Lean Implementation	2014
Guest Lecturer —MFS 603: Standardized Work and Job Instruction	2009
Guest Lecturer —MFS 603: 8 Step Problem Solving	2009

POSITIONS HELD

Assistant Professor , Engineering Technology, University of Kentucky	2021
Lean Graduate Certificate Committee , Graduate School, Univ of Kentucky	2021
Adjunct Assistant Professor , Mechanical Eng., University of Kentucky	2021
Industry Extension Specialist III , University of Kentucky	2014 – 2021
Industry Extension Specialist II , University of Kentucky	2008 – 2014
Mechanical Engineer , Opportunity for Work & Learning, Lexington, KY	2007
Manufacturing Systems Engineer , Terex Corp., Denison, TX	2006 – 2007
Mechanical Engineer , Panasonic Home Appliances, Danville, KY	2004, 2005

LIST OF PUBLICATIONS

Books and Book Chapters

1. Maginnis, M.A., Cooper, W., **Parsley, D.** (2020). Challenges to Lean Implementation from a True Lean (TPS) Perspective. *Chapter 8: International Handbook of Lean Organizations*. Cambridge Press
2. Saito, A., Saito, K., & Cho, F. (2012). *Seeds of collaboration: Seeking the essence of the Toyota Production System, an appreciation of Mr. Fujio Cho, master teacher*. Monterey, KY: Larkspur Press.

Refereed Journal Articles

1. Cooper, W., Maginnis, M.A., **Parsley, D.**, & Saito, K. (2017). The Model Area in Successful Lean Transformation and Scale Modeling. *Eighth International Symposium on Scale Modeling (ISSM-8)*. Portland, OR
2. Marksberry, P., **Parsley, D.** (2011). Managing the IE (Industrial Engineering) Mindset: A quantitative investigation of Toyota's practical thinking shared among employees. *Journal of Industrial Engineering and Management*, 771-799.

FEDERAL/STATE GRANTS

1. Student LEAN International Mission (SLIM): Certificate collaboration between the University of Kentucky and the University of Jordan (PI: David Parsley, Co-PIs: Ahmad Salameh, Mohammad Shbool, Nelson Akafuah). 2021, 6 months, \$75,000 (PENDING)

AWARDS

Boeing Fellowship, University of Kentucky

2009 – 2010

PROFESSIONAL AFFILIATIONS

Society of Manufacturing Engineers (SME)

American Society of Mechanical Engineers (ASME)

Engineers Without Borders

SERVICE

- Studied at Toyota Motor Manufacturing Kentucky to understand how they train in multiple Toyota Production System (TPS) concepts to improve UK's True Lean Systems Certification (2008).
- Worked with Boeing Lean + Offices in Renton, WA and Everett, WA to study the application of TPS within the organization (2009).
- Instructor—8 Step Problem Solving for B/E Aerospace in Miami, FL and Tucson, AZ (2009).
- Worked with the Kentucky Division of Water to document administrative work processes using Material & Information Flowcharts (2009).
- Worked with Lake Region Medical in Chaska, MN to develop internal company coaches for 8 Step Problem Solving (2010).
- Instructor—8 Step Problem Solving for SRC of Lexington (2010).
- Instructor—8 Step Problem Solving for the FreeStore Foodbank in Cincinnati, OH (2010).
- Instructor—8 Step Problem Solving for the Coca-Cola Company in Ireland (2010).
- Instructor—8 Step Problem Solving for Teva Pharmaceuticals in Ireland (2010).
- Instructor—Lean Executive Leadership Institute for the Hershey Company (2011).
- Instructor—Lean Executive Leadership Institute for GE Energy (2011).
- Invited talk on Process and Flow Study at Lexmark International (2011).
- Invited talk on Lean New Product Development Process at Link-Belt (2011).
- Worked with Continuous Improvement Department at Montaplast and UK Graduate Student teams to provide support for implementation of improvement projects (2011).
- Instructor—8 Step Problem Solving at Union Pacific Railroad in North Platte, NE (2011).
- Instructor—8 Step Problem Solving at Union Pacific Railroad in Roseville, CA (2011).
- Instructor—8 Step Problem Solving at Union Pacific Railroad in Denver, CO (2011).
- Worked with the Hussmann Corporation in Bridgeton, MO to develop and teach a dedicated True Lean Certification Course for their management teams (2012).
- Instructor—8 Step Problem Solving for the Hussmann Corp. in Bridgeton, MO (2012).
- Invited talk on 8 Step Problem Solving at Mine Safety Appliances in Cranberry, PA (2012).
- Worked with the Irish Centre of Business Excellence (ICBE) to develop and teach a two week True Lean Certification program for their members in Ireland (2013).
- Engaged with Continuous Improvement Kaizen activity at Avantor in Frankfort, KY (2013).
- Invited visit to Hendrickson Heavy-Duty Suspension factory in Hebron, OH (2013).
- Instructor—8 Step Problem Solving at Vistakon in Limerick, Ireland (2013).
- Instructor—8 Step Problem Solving at Boeing Fabrication in Salt Lake City, UT (2013).
- Instructor—8 Step Problem Solving at Boeing Fabrication in Everett, WA (2013).
- Instructor—8 Step Problem Solving at MIBA Bearings in McConnelsville, OH (2013).

- Instructor—8 Step Problem Solving at Norfolk Southern Railroad in Conway, PA (2013).
- Worked with MIBA Bearings Continuous Improvement team in McConnelsville, OH to develop and teach manufacturing teams lean concepts through a hands-on training simulation (2014).
- Worked with Polaris Leadership in Roseau, MN to develop and train manufacturing supervisors through a specialized two day lean program (2014).
- Instructor—2 Week ICBE True Lean Certification in Athlone, Ireland (2014).
- Worked with SRC of Lexington Leadership team to perform a lean organizational assessment and develop their transformation master plan (2014).
- Worked with AdvancePierre Foods Continuous Improvement Leader in Cincinnati, OH to develop and train employees on an introduction to True Lean using a hands-on simulation (2015).
- Instructor—True Lean overview simulation for TenteCasters in Cincinnati, OH (2015).
- Instructor—2 Week ICBE True Lean Certification in Athlone, Ireland (2015).
- Invited talk on True Lean Overview at UK HealthCare (2015).
- Provided coaching and support to SRC of Lexington on development of Lean Leadership Roles and the selection a model area for True Lean implementation (2015).
- Instructor—8 Step Problem Solving at Metalsa in Elizabethtown, KY (2016).
- Instructor—2 Week ICBE True Lean Certification in Athlone, Ireland (2016).
- Worked with SRC of Lexington on True Lean model area development, process flow, standardized work and 8 Step Problem Solving (2016).
- Instructor—8 Step Problem Solving at AdvancePierre Foods in Cincinnati, OH (2017).
- Provided coaching and support to Wabash Castings in Wabash, IN on the development and documentation of their system for True Lean and the creation of a master plan (2017).
- Provided coaching at Stupp Bridge in Bowling Green, KY on the development of their True Lean strategy (2018).
- Instructor—Lean Executive Leadership Institute for General Dynamics in Healdsburg, CA (2019).
- Worked with management team of General Dynamics in Healdsburg, CA to begin development of a True Lean strategy and master plan (2019).
- Provided coaching for the Lexington Fire Department on a project to apply lean within their vehicle maintenance process (2020).
- Instructor—8 Step Problem Solving at MIBA Bearings in McConnelsville, OH (2021).