



**DESIGN
RESEARCH
ENGINEERING**

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Kathryn M. Petrilli, M.S.B.E., M.A.
Senior Project Engineer

Professional Specialization

Areas of expertise include occupant protection and vehicle safety, biomedical engineering and evaluation of accident and injury data in investigations.

Education

University of Michigan, Ann Arbor MI	May 2019 – Sept 2020
International Center for Automotive Medicine (ICAM) Fellowship	
Siena Heights University, Adrian MI	Sep 2011 – May 2013
M.A. Health Care Administration	
Wayne State University, Detroit MI	Jan 2007 – Dec 2007
M.S. Biomedical Engineering, specialty Transportation-Related Trauma	
Kettering University (formerly GMI), Flint MI	Jul 2001 – Sep 2005
B.S. Mechanical Engineering, specialty Bioengineering Applications	
Minor: Applied Mathematics	
Fachhochschule de Technik - University of Applied Sciences, Ulm, Germany	Sep 2004 – Dec 2004
Study Abroad - Mechanical Engineering courses	

Certifications

Child Passenger Safety Technician Certification
Bosch Crash Data Retrieval Certification
Northwestern University Center for Public Safety, Traffic Accident Reconstruction for Engineers
Design for Six Sigma (DFSS) Green Belt and Black Belt Certification

Professional Experience

Design Research Engineering, <i>Senior Project Engineer</i>	Jul 2026 – present
General Motors, Warren, MI <i>Safety Forensic Engineer</i>	Oct 2015 – Jul 2026
TriMedx - Clinical Engineering at St John Providence Health System, Warren MI <i>Site Manager II for St John Macomb-Oakland Hospital</i> <i>Site Manager for St John Macomb-Oakland Hospital</i>	May 2013 – Sep 2015 Nov 2011 – May 2013
St. John Providence Health System, Warren MI <i>Supervisor – Biomedical Services</i>	Apr 2010 – Nov 2011
Resource Technologies, Madison Heights MI <i>Product Engineer at Chrysler</i>	Feb 2010 – Apr 2010
Key Safety Systems, Sterling Heights MI <i>Test Engineer</i>	Mar 2008 – Mar 2009
BREED Technologies/Key Safety Systems, Sterling Heights MI <i>Co-op Engineer</i>	May 2002 – Sep 2005

Honors and Awards

Kappa Mu Epsilon Mathematics Honor Society, Kettering University
Pi Tau Sigma Mechanical Engineering Honor Society, Kettering University

July 2026