

CARR ENGINEERING, INC.

12500 CASTLEBRIDGE DRIVE HOUSTON, TEXAS 77065-4532
TELEPHONE 281-894-8955

Curriculum Vitae for Kathleen Rodowicz, Ph.D., P.E.

Education and Licensing

- Bachelor of Science in Mechanical Engineering, Drexel University, 2004
- Doctor of Philosophy in Mechanical Engineering, Drexel University, 2008
- Registered Professional Engineer in the State of Maryland, 2014 to present
- Certified lift truck operator

Specialized Professional Competencies

- Biomechanical investigation, reconstruction, and failure analysis for a variety of situations and environments
- Analysis of human kinematics, injury potential, and injury mechanisms in motor vehicle crashes, sporting incidents, slip-and-fall events, and matters involving industrial equipment
- Design, implementation, and execution of vehicle and vehicle component testing
- Analysis of real-world accident and injury data
- Human surrogate testing and analysis

Professional Experience and Qualifications

- Principal Engineer, Carr Engineering, Inc., July 2024 to present
- Principal Engineer & Practice Director, Exponent, Inc., July 2021 to June 2024
- Principal Engineer, Exponent, Inc., April 2018 to July 2021
- Managing Engineer/Senior Managing Engineer, Exponent, Inc., April 2013 to April 2018
- Associate/Senior Associate, Exponent, Inc., September 2008 to April 2013

Research Activities

- Influence of restraint use and various restraint technologies on occupant kinematics, injury potential, and injury mechanisms in motor vehicle and heavy truck crashes
- Effect of disease on spine biomechanics and injury tolerance
- Injury risk and injury mitigation in industrial settings
- Balance retention and postural control strategies following postural disturbances
- Effectiveness of headgear in preventing injury in a variety of sporting environments

Professional Associations

- Society of Automotive Engineers
- American Society of Mechanical Engineers