

Daniel S. Peterson, P.E.
Senior Engineer

Professional Profile

Mr. Daniel Peterson is a Senior Engineer in Exponent's Vehicle Engineering practice, and is based in Phoenix, Arizona. Mr. Peterson manages projects involving the design and conduct of vehicle crash tests, rollover tests, barrier tests, sled tests, and quasi-static strength tests, as well as vehicle occupant inversion and airbag deployment demonstrations. He is experienced with accident vehicle inspections, and he is skilled in several vehicle and scene modeling techniques including three-dimensional metrology, photogrammetry, and 2D/3D video motion analysis. Mr. Peterson has also conceived and built several tools to assist testing and documentation.

Academic Credentials and Professional Honors

B.S., Mechanical Engineering, University of Arizona, 2001

Licenses and Certifications

Registered Professional Mechanical Engineer, Arizona, #48894

Northwestern University Traffic Institute, *Traffic Accident Reconstruction I*

EOS Systems Incorporated, *PhotoModeler Collision Investigation*

Publications

Croteau J, Frank B, Peterson D, Bare C, Kyanka G. Timber utility pole fracture mechanics due to non-deformable and deformable moving barrier impacts. Society of Automotive Engineers World Congress, 2011.

Croteau J, Zolock J, Larson R, Bare C, Peterson D, Parker D. Dynamic response of vehicle roof structure and ATD neck loading during dolly rollover Tests. Society of Automotive Engineers World Congress, 2010.

Peterson D, Smith J. Comparison of vehicle measurement techniques. Collision Magazine, Fall 2009.

Beaudoin B, Peterson D, Hoover R, Newberry W, Smyth B. Restraint load marks in sled testing conducted with the Hybrid III 3-year-old and 6-year-old anthropomorphic test devices. Society of Automotive Engineers World Congress, 2008.

Prange M, Moore T, Newberry W, Peterson D, Smyth B, Corrigan C. Inertial neck injuries in children involved in frontal collisions. Society of Automotive Engineers World Congress, 2007.

Beaudoin B, Peterson D, Hoover R, Newberry W, Smyth B. Restraint load marks in sled testing conducted with the Hybrid III 3-year-old and 6-year-old anthropomorphic test devices. Society of Automotive Engineers World Congress, 2008.

Prange M, Moore T, Newberry W, Peterson D, Smyth B, Corrigan C. Inertial neck injuries in children involved in frontal collisions. Society of Automotive Engineers World Congress, 2007.

Presentations

Peterson D. Comparison of vehicle measurement techniques. National Association of Legal Investigators Winter Conference, February 2010.

Professional Affiliations

Society of Automotive Engineers—SAE (member)