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Joseph W. Neal, M.S.M.E.

Specialized Professional Competence

- Failure analysis and accident reconstruction.
- Risk analysis of mechanical designs including identification of failure modes, assessment of consequences of failure and quantification of actual risk for use of existing systems .
- Design, computer aided engineering, computer modeling of design, manufacturing, design verification, reliability and quality control techniques for mass produced products.
- Vehicle dynamics, vehicle dynamics testing and instrumentation .
- Design, development, testing and evaluation of automotive chassis systems including electronic stability control systems and advanced chassis systems.

Professional Qualifications

- Bachelor of Science (Mechanical Engineering), The University of Tulsa, 1985
- Master of Science (Mechanical Engineering), Purdue University, 1987
- Associate Consulting Engineer,
Tandy Engineering & Associates, Inc. – 2007 to Present
- Technical Specialist, Advanced Core Engineering
Ford Motor Company. – 1997 to 2007
(Vehicle Dynamics CAE and Test)
- Chassis Design Engineer, Advanced Vehicle Technology,
Ford Motor Company – 1992-1997
(Chassis Design, CAE, and Test)
- Compressor Aerodynamics Design Engineer
Pratt & Whitney Aircraft Engines – 1987-1992
(Design and Test)
- Recipient of Ford Motor Company Customer Driven Quality Award
- Author of United States Government Patents on Suspension Design and Control Algorithms
- Member of Society of Automotive Engineers
- Completed Six-Sigma Black-Belt Training