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Donald F. Tandy, Jr., P.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 Ohio State University, 1985
- Master of Science (Mechanical Engineering), The Ohio State University, 1986
- Principal Engineer,
Tandy Engineering & Associates, Inc. – 2002 to Present
- Graduate Engineer,
Carr Engineering, Inc. – 1995 to 2001
- Supervisor, Advanced Vehicle Technology,
Ford Motor Company – 1994-1995
(Core and Advanced Vehicle Dynamics CAE and Test)
- Supervisor, Light Truck Engineering,
Ford Motor Company – 1993-1995
(Light and Truck Vehicle Dynamics and Suspension Design and Test)
- Technical Specialist, Light Truck Engineering,
Ford Motor Company – 1989-1993
(Vehicle Dynamic Modeling and Test)
- Research Engineer, Product Manufacturing and Engineering Staff,
Ford Motor Company – 1986-1989
(Design and Testing of Advanced Suspension Concepts)
- Recipient of Ford Motor Company Henry Ford Technical Award,
six Ford Customer Driven Quality Awards, and two Ford Light Truck Achievement Awards
- Author of United States Government Patents on Suspension Designs and ESC Systems
- Member of Society of Automotive Engineers and American Society of Mechanical Engineers
- Member of Texas Society of Professional Engineers / National Society of Professional Engineers
- Registered Texas Professional Engineer
- National Science Foundation Fellow
- Member of National Association of Professional Accident Reconstruction Specialists, Inc.