

Jeffrey T. Dinges, M.E., P.E.

Specialized Professional Competence

- Crash reconstruction for motor vehicle systems.
- Tire design analysis for motor vehicle systems.
- Design, development, testing and failure analysis of motor vehicle systems, unmanned ground vehicle systems and mechanical systems.
- Vehicle dynamics, vehicle electronic stability control, vehicle dynamics testing and simulation, vehicle parameter measurement, advanced driver assistance systems, and advanced chassis systems.
- Computer aided engineering, solid modeling and finite element analysis for mechanical systems.
- Test and evaluation of motor vehicle systems and subsystems including simulation, instrumentation and data analysis.

Professional Qualifications

- Master of Engineering, Automotive Engineering, University of Michigan, 2004
- Bachelor of Engineering, Mechanical Engineering, Auburn University, 2000
- Defense Acquisition University Systems Engineering Level III, 2011
- Dynamic Analysis Group LLC, Engineer – 2018 to Present
- Design Research Engineering, Senior Project Engineer – 2016 to 2018
- Department of Defense, United States Navy, Senior Systems Engineer – 2010 to 2016
- The Motorsports Group, Owner – 2006 to 2011
- Tandy Engineering and Associates, Inc., Senior Engineer – 2006 to 2010
- Pirelli Tire North America, Research and Development Engineer – 2004 to 2006
- Ford Motor Company, Vehicle Dynamics Engineer – 2000 to 2004
- Professional Engineer – Florida #77603, Texas #125689
- Accreditation Commission for Traffic Accident Reconstruction (ACTAR) – #3819
- Society of Automotive Engineers (SAE) Technical Publication Reviewer
- Memberships: Society of Automotive Engineers (SAE), National Society of Professional Engineers (NSPE), Texas Society of Professional Engineers (TSPE)

Jeffrey T. Dinges, M.E., P.E.

Publications

- SAE Paper 2019-01-1010, “Automated Vehicle Disengagement Reaction Time Compared to Human Brake Reaction Time in Both Automobile and Motorcycle Operation” (with N. Durisek)
- SAE Paper 2018-01-0520, “A Comparison of Motorcycle Braking Performance with and without Anti-Lock Braking on Dry Surfaces” (with T. Hoover)
- SAE Paper 2010-01-0770, “Effect of Water Depth and Translational Velocity on Tire Force and Moment Characteristics” (with D. Tandy, S. Hanba and J. Bae)
- DTIC TR-2013/015, “R2C Expendable Unmanned Systems Technologies Study” (with K. Tuttle, K. Ten Broeck, J. Millholan, D. Bride, D. Coats. P. Delay, M. Bruch, C. Scrapper and D. Fellars)

Presentations

- “Vehicle Dynamics and Tire Testing Methods”, Society of Automotive Engineers Atlanta Section, February 2006.
- “Modern Event Data Recorders and How They Impact Accident Reconstruction”, Emerging Issues in Motor Vehicle Product Liability Litigation, ABA Tort Trial & Insurance Practice Products Liability Committee and the Automobile Litigation Committee, April 2019.
- “Automated Vehicle Disengagement Reaction Time Compared to Human Brake Reaction Time in Both Automobile and Motorcycle Operation”, Society of Automotive Engineers World Congress, April 2019.