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B. Nicholas Ault, P.E.

Specialized Professional Competence

- Failure analysis and automotive accident reconstruction
- Design verification and reliability techniques for mass produced products
- Design, development, instrumentation, testing, and evaluation of automotive chassis systems
- Tuning and development of Light Truck tires
- Risk analysis of mechanical designs including identification of failure modes, assessment of consequences of failure, quantification of actual risk for use of existing systems, and projections of risks for systems under consideration

Professional Qualifications

- Bachelor of Science of Mechanical Engineering, University of Missouri-Rolla, 2000
- Master of Science of Mechanical Engineering, Purdue University, 2004
- Graduate Engineer
Tandy Engineering & Associates, Inc. – 2006 to Present
- Vehicle Dynamics Engineer
Ford Motor Company – 2002 to 2006
(North American Truck, Ranger and F150 Platforms)
- Ford College Graduate
Ford Motor Company – 2000 to 2002
 - Truck Chassis Systems Integration – June to November, 2002
(Chassis Design & Vehicle Dynamics Modeling)
 - 2003MY Expedition / Navigator Launch – September, 2001, to May, 2002
(Steering System Design & Release)
 - North American Truck Vehicle Dynamics – February to August, 2001
(Escape Platform Vehicle Dynamics)
 - North American Truck Steering Design – July, 2000, to January, 2001
(Super Duty Platform Hydraulic System Design & Release)
- Ford Tier 3 Test Driver Certification
- Member of the Society of Automotive Engineers
- Member of the Texas Society of Professional Engineers / National Society of Professional Engineers
- Registered Professional Engineer in the State of Texas
- Certified Bosch Crash Data Retrieval Technician & Analyst
- Northwestern University's Traffic Crash Reconstruction II Course: October 24-28, 2011
- Crash Data Retrieval User's Summit Attendee: January 16-18, 2012

Publications

SAE Paper 2010-01-0095, "The Response Characteristics of Several Vehicles Equipped with Electronic Stability Control to Violent Steering Demands on Different Surfaces"; Authors: D. F. Tandy, Jr., B. N. Ault, K. T. Tandy, R. J. Pascarella

SAE Paper 2011-01-0973, "Steering and Handling Performance During a Full Tire Tread Belt Separation"; Authors: D. F. Tandy, Jr., R. Pascarella, B. N. Ault, C. Coleman, K. Tandy