

Curriculum Vitae

Michael D. Dorohoff, MSME

Profession: Mr. Michael Dorohoff is a project engineer specializing in vehicular accident reconstruction and automotive engineering, with a focus on vehicle dynamics. He has analyzed over 200 accidents involving cars, tractor-trailers, pedestrians, bicyclists, motorcycles, heavy trucks, and etc. He has considerable experience with robust 3-D accident reconstruction and simulation programs, CAD software, photogrammetry software, surveying equipment, and vehicle accelerometers.

Mr. Dorohoff recently served as a University Fellow at the Ohio State University contracted to the National Highway Traffic Safety Administration to study vehicle rollover. As a conclusion to this research, he wrote a Society of Automotive Engineers (SAE) technical paper on vehicle asymmetric response and presented it at the 2004 SAE World Congress. He has experience instrumenting vehicles for field tests, conducting and analyzing suspension and steering parameter measurements, and has utilized several computer simulation programs to analyze vehicle handling, stability, and performance.

Education: *Ohio State University; Columbus, Ohio*
2003 – Master of Science in Mechanical Engineering
University Fellow

Ohio University; Athens, Ohio
2002 – Bachelor of Science in Mechanical Engineering
Honors Program, Summa Cum Laude, Top Senior, Mathematics minor

Experience: *Bloomberg Consulting, Inc. – Pensacola, FL*
2004 to present – Accident Reconstructionist and Project Engineer

National Highway Traffic Safety Administration VRTC – East Liberty, Ohio
2003 – Research Engineer (University Fellow) for Crash Avoidance Group

Goodyear Tire & Rubber Company – Akron, OH
2000 to 2002 – Mechanical Engineering Co-op (Quarterly assignments)

Ohio University Russ College of Engineering Center – Athens, OH
1999 to 2002 – Undergraduate Research Assistant

Ohio University Academic Advancement Center – Athens, OH
1997 to 2002 – Math and Chemistry Tutor, Supplemental Instructor for Statics,
Peer Supervisor

Professional
Associations:

- Society of Automotive Engineers (SAE)
- American Society of Mechanical Engineers (ASME)
- Tau Beta Pi (former OH Delta President)
- Pi Tau Sigma (Mechanical Engineering Honor Society)
- Sports Car Club of America (SCCA)—Lifetime Member

Papers and
Presentations:

- Dorohoff, M.D., Guenther, D.A., Heydinger, G.J., “A Study of Vehicle Response Asymmetries During Severe Driving Maneuvers,” SAE paper No. 2004-01-1788, 2004.
- Dorohoff, M.D., “A Study of Vehicle Response Asymmetries During Severe Driving Maneuvers,” MS Thesis, The Ohio State University, 2003.
- Carter, B., Dorohoff, M., Good, M., Lew, J., Williams II, R., “Mechanical Design and Modeling of an Omni-directional RoboCup Player,” *The 2002 RoboCup International Symposium*, 2001.

Training:

- Ongoing Accident Reconstruction Training – Since 2002, Mr. Dorohoff has analyzed over a hundred SAE technical papers, crash tests, and other leading edge research in the field of automotive engineering and accident reconstruction.
- Vehicle Accident Reconstruction Methods, taught by Dr. Raymond M. Brach in collaboration with the *Society of Automotive Engineers*; Detroit, Michigan. (April, 2005)
- Vehicle Dynamics and Lab, taught by Dr. Dennis Guenther of the *Ohio State University*; Columbus, Ohio. (2003)
- Powertrain Dynamics, taught by Dr. Giorgio Rizzoni and Dr. K. Srinivasan of the *Ohio State University*; Columbus, Ohio (2002)
- Internal Combustion Engines, taught by Dr. Ahmet Selamet of the *Ohio State University*; Columbus, Ohio. (2002)
- Biomechanics, taught by Dr. Necip Berme of the *Ohio State University*; Columbus, Ohio. (2003)
- Skip Barber Racing School (SRT Track Experience: March, 2006)

- HVE-3D Computer Simulations, 2006 HVE Forum, *Engineering Dynamics*; Phoenix, AZ.
- REC-TEC Accident Reconstruction Software Training, taught by George M Bonnett; IPTM in Jacksonville, FL. (August, 2006)