

FIELD & TEST ENGINEERING, Inc.
ACCIDENT RECONSTRUCTION SPECIALISTS
Highway, Street & Offsite Facilities – Safety & Analysis
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SAMUEL R. TERRY

SPECIALIZING IN

*Accident Reconstruction:

Accident Site Mapping & Investigation / Crush Measurements / Commercial Vehicle Accidents / Vehicle Inspections / Air Brake Analysis / Line of Sight Analysis / Seatbelt Loading / Roll-over Accidents / Perception/Reaction Time / Principal Direction of Force (PDOF) Determination / Exemplar Vehicle Inspections / Skidmark Analysis / Time/Distance Analysis / Conservation of Momentum / Vehicle Dynamics and Handling / Lamp Examinations / Delta "V" Analysis / Vehicle Instability / Rotational Momentum / High Resolution Courtroom Exhibits

*Vehicle Testing:

Stability and Handling / Tilt Table / Locating Vehicle Center of Gravity / Blowout Response / Brake Testing Including Air Brakes & Antilock Brakes / Split Mu Braking Impact / Door Latches / Fuel Tanks / Over-ride & Under-ride Crush / FMVSS Tests

PROFESSIONAL EXPERIENCE:

Field & Test Engineering, Inc. - Program Manager / Branch Manager for the Las Vegas, Nevada office. Responsible for forensic mapping & motor vehicle accident reconstruction including vehicle inspections (March 2007 to the Present)

Nevada Automotive Test Center - Carson City, Nevada - Program Manager responsible for performing vehicle stability and handling evaluations including end-limit maneuvers and roll-over determination on passenger cars, light trucks, commercial vehicles and equipment. Analyze vehicle static and transient response. Perform complete accident reconstructions including site and vehicle inspections, analysis, documentation and final report development. Responsible for proposal writing, test planning, instrumentation, testing, data processing, analysis and preparation of final reports. Perform data analysis and suggest/implement vehicle design changes. (October 2000 to June 2005)

Verifact Corporation - San Antonio, Texas - Accident Analyst responsible for conducting accident investigations, performed analysis and accomplished complete vehicle accident reconstructions. Responsible for deciphering roadway evidence, accomplishing electronic site surveys, vehicle damage inspection and documentation, complete accident diagrams, conduct analysis and preparation of final reports. Accomplished analysis in the areas of: linear and rotational momentum, speed determination from tire marks and/or crush, work, force and energy analysis and speed change "delta-V" using EDCRASH. Performed failure analysis on vehicle systems including: structural, electrical, drive train and suspension. Performed static loading and dynamic impact tests on vehicles and components. (October 1997 to October 2000)

TEACHING EXPERIENCE:

Nevada Automotive Test Center Driver Training Instructor for 2 and 4-wheel drive light trucks and class 8 heavy trucks. Senior Driver Training Instructor for several Department of Defense 2-and 4-wheel drive off-road handling courses including pursuit driving to minimize damage to the environment and the vehicle.

Also provided instruction and hands on training in the stability and handling maneuvers of class-8 commercial trucks. Provided ride quality engineers with the ability to evaluate different class-8 trucks during a variety of standard handling maneuvers including: Constant Radius / J-Turn / Slalom / Double Lane Change / Single Lane Change and Split-Mu Braking. (October 2000 to June 2005)

EDUCATION:

(B.S.E.T.) Bachelor of Science in Engineering Technology - Texas State University, San Marcos, Texas.
(May 1997)

“Vehicle Accident Reconstruction Methods” – SAE International, Detroit, MI, August 2005

“Conducting Vehicle Handling Maneuvers” – Milliken Research Associates, Carson City, NV, June 2005

“Heavy Truck Handling Symposium” - SAE International, Greenville SC, May 2005

“Passenger Vehicle Rollover, Causes, Prevention and Injury Prevalence,” SAE International, Scottsdale, AZ,
April 2002

“Vehicle Dynamics for Passenger Cars and Light Trucks” - SAE International, Detroit, MI, June 2001

“Hydraulic Brake Systems” - SAE International, Detroit, MI, February 2001

“Commercial Vehicle Inspection / Investigation” - Texas A&M University, Houston, TX, October 1999

“Accident Investigation II” - Northwestern University, Evanston, IL, October 1998

TECHNICAL BACKGROUND:

Accident Reconstruction: Accident investigation; including scene mapping and vehicle inspections. Reconstruction analysis including perception/reaction, time/distance analysis, Delta “V”, conservation of momentum, and rotational momentum. Line of site, rollover, and skidmark analysis. Documentation, analysis, and reconstruction of hundreds of vehicle accidents which included time and motion analysis, speed/distance analysis and rollovers.

Vehicle Testing: Testing on vehicles from mopeds to 126,000 lb military logistics vehicles to include stability and handling for motorcycles, passenger cars, light trucks, class 5, 6, 7 and 8 trucks and specialty prototype vehicles, ride quality and braking, durability / reliability, power train, tilt testing, cold start, cold storage, hot testing, solar loading, thermal shock, blowing sand, air brakes, head/tail lamp on/off on impact, tire analysis, & seat belt loading.

Vehicle Standards: SAE, ISO, NATO and FMVSS standards. Vehicle dynamics to determine vehicle stability and handling maneuverability.

Vehicle & Scene Mapping: Line of sight studies & preservation of the scene; formal court presentation maps and plans.

CO-AUTHOR:

“A Pendulum Method for Impact Testing Vehicle Sub-systems” SAE 2002-01-0687 – defines various ways a Pendulum can be utilized to accurately reconstruct and replicate single direction impacts on vehicles.