



Steven A. Schlosser – Crash Reconstruction/Computer Simulation

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Professional Summary

Bachelor of Science in Engineering

Accredited Traffic Accident Reconstructionist (ACTAR)

Primary Areas of Consultation:

Motor vehicle crash reconstruction and computer modeling and simulation.

Professional Experience:

01/2008 to Present Billy Cox Group
Navasota, Texas
Crash Reconstruction and Computer Simulation

Provide crash reconstruction service and prepare scale drawing and 3-D animations of accidents and collisions for use as courtroom exhibits.

08/2004 to Present CSI Forensics
Kingwood, Texas

Owner, Accident Analyst/Forensic Animator. Provide accident reconstruction and analysis services to Law Firms, Insurance Companies and Law Enforcement Agencies. Prepare 3D Animations of accidents and collisions for use as courtroom exhibits. Generate FDS Simulations of fire and smoke flow in and from burning structures.

08/2004
02/1999 Engineering and Fire Investigations
Kingwood, Texas

Project Manager Accident Analyst (ACTAR #788) /3D Animator. Provide accident reconstruction and analysis services to Law Firms, Insurance Companies and Law Enforcement Agencies. Prepare 3D Animations of accidents and collisions for use as courtroom exhibits. Generate FDS Simulations of fire and smoke flow in and from burning structures.

02/1997 to AA&I
02/1999 Wimberley, Texas

Owner, Accident Analyst/3D Animator. Provide accident reconstruction and analysis services to Law Firms, Insurance Companies and Law Enforcement Agencies. Prepare 3D animations and displays for use as courtroom exhibits.

1997 to Evans & Associates, Inc.
1993 Las Cruces, New Mexico

Accident Analyst/3D Animator. Provide accident reconstruction and analysis services to Law Firms, Insurance Companies and Law Enforcement Agencies. Novell 3.12 Network Administrator. Installed and upgraded computer networks for Evans & Associates and other firms owned by Don Evans. Supervisor responsible for technical staff production and training. Assist with failure analysis, civil projects, and geotechnical projects requiring soils investigations.

1993 to A.E.S. Engineering
1992 Las Cruces, New Mexico

Responsible for engineering design, survey and county plat approval of various projects inside and outside of the Las Cruces area. These included design of all aspects of a three-phase subdivision development encompassing approximately 300 acres inside the city limits. A gas pipeline project along the New Mexico/Mexico Border. City of Las Cruces citywide storm drainage project. Elks Road realignment project. All projects required extensive earth, roadway, drainage and utility layout design to complete and meet city/state approval.

EDUCATION

B.S., Engineering
New Mexico State University (May 1992)
Bachelor of Science in Engineering

PROFESSIONAL TRAINING

"Defending Nighttime Auto/Pedestrian Accidents" Marules and Associates, Inc. February 2007.

Course covered nighttime perception/reaction time, roadway geometry and design, low beam vs. high beam visibility, six driver avoidance maneuvers, danger expectancy issues, emergency lane change, effects of pedestrian clothing and then apply that knowledge to pending and future cases.

"Forensic Computer Animation" Texas Association of Accident Reconstruction Specialists 2003.

Curriculum covered forensic animation case studies, simulation vs. animation, admissibility issues, documentation of vehicle dynamics from an animation program or programs, obeying physical realities and expert's opinion, animating difficult physical motion, methods and resent court decisions.

"Damage and Energy Applications for Collision Reconstruction – Crush Analysis" Collision Safety Institute 2002.

Course curriculum covered work and energy concepts as applied to motor vehicles and motor vehicle collisions, relationship between kinetic energy and "crush" or residual permanent damage, the limits and appropriate applications of damage-based collision analysis, strategies for vehicle documentation (measurements) particularly when the end application is an energy-based analysis of a collision, locate and identify appropriate information for stiffness coefficient calculations and conduct complex energy and momentum based analysis of collisions.

"Crash Data Recorder Operator's Certification Course" Collision Safety Institute 2002.

Curriculum covered terms & conventions, relevant reconstruction refresher, EDR history and development, vehicle coverage, necessary hardware, basics of data collection, mechanics of a "download", software operation, anticipated output, troubleshooting the software, data limitations, generic, General Motors specific, Ford specific, data sources, within the vehicle, within the control module, scenarios, examples of collected data and its application, legal considerations.

"Driver Behavior in Motorcycle Collisions" Institute of Vehicle Safety 1998.

Curriculum covered evidence of aggressive driver behavior in motorcycle collision investigations. Determining effective drag factors in motorcycle collisions using weight shift calculations. Other topics covered were; Tire wear patterns as evidence, measurement of motorcycle slide coefficients, formulas and case studies.

"Commercial Vehicle Rollover and Braking" Texas Association of Accident Reconstruction Specialists 1998.

Curriculum covered center of mass calculations, axle weight calculations, air brake deceleration rates, spring lash, track width, rollover threshold, roll center, worksheets and sample calculations.

"Biomechanics in Low-Speed Collisions" Institute of Vehicle Safety 1998.

Curriculum covered head/neck kinematic response of human subjects in low-speed rear-end collisions, test data, head restraint effect, gender differences and clinical response of human subjects to rear-end automobile collisions.

"Perception/Reaction Degradation by Alcohol and Fatigue" Texas A & M University, Safety Education Program 1998.

Curriculum covered equating the performance impairment associated with sustained wakefulness and alcohol intoxication, analysis of previously performed tests, statistics and perception/reaction testing of volunteers.

"Investigation of Accidents Involving Vehicle Fire" Institute of Vehicle Safety 1998.

Curriculum covered vehicle fire investigation, most common causes, case studies, fire death and injury statistics, methods and a vehicle fire demonstration at the Colorado Springs Fire Department Training Center.

"Vehicle Rollover" Texas Association of Accident Reconstruction Specialists 1998.

Curriculum covered overview of rollover accidents, statistics, discussion of references, graphics, photographs and technical drawings used in the presentation of rollover accidents, trip phase, linear and angular velocity, yaw analysis, vehicle interior evidence, model and animation examples from case studies.

"Concept of Day/Night Visibility" Institute of Vehicle Safety 1998.

Curriculum covered biology of the eye, angular separation as related to distance of vehicular lights, elements of driver perception-reaction time, visibility distances in nighttime driving, vision tests for drivers, night eye vs. day eye, the practice of forensic night visibility, and case studies.

"Traffic Accident Reconstruction I" Texas A&M University 1996.

Curriculum covered topics found in the The Traffic Accident Investigation Manual: Traffic Investigation Functions and Preparation, Traffic Accident Information from and about People, Roads, Vehicles, Estimates of Vehicle Stopping Distances, Speed from Skid Marks, Lamp Examination for on or off, Tire Examination, Measuring at the Scene, Photogrammetry, Drawing After Accident Situation Maps, Photography in Accident Investigation, Evaluation of Driver Strategies and Tactics, Case Studies and Reconstruction of Actual Traffic Accidents.

"Commercial Vehicle Inspection/Accident Investigation" Texas A&M University, 1995.

Curriculum included Tractor-Trailer Dynamics and Newton's Laws, Basic Statistics, Heavy Truck Accident Reconstruction, Conservation of Momentum Energy, Speed Estimates from Marks on the Road, Strategy and Tactics, Derivation of Equations, Case Presentation, Testimony, Report Writing, Exhibits, Case Studies, Vehicle-Vehicle Accidents, Vehicle-Pedestrian Accidents, Car-Train Accidents, Truck Accidents, Dynamics and Braking of Articulated Vehicles, Conservation of Linear Momentum and Kinetic Energy.

"Measuring at the Scenes of Traffic Accidents" Northwestern University Traffic Institute, 1995.

Curriculum included what locate, Methods of Locating, coordinate Method, Triangulation, Reference Lines and Points, Recording Measurements, Field Sketches, Equipment and its Use, Special Situations in Measuring, Field Experience.

REGISTRATIONS

Accreditation Committee for Traffic Accident Reconstruction (ACTAR #788)
Texas Licensed Private Investigator - #A13239

Texas Association of Accident Reconstruction Specialists (TAARS)
Society of Automotive Engineers (SAE)