

Scott Moore & Associates

Traffic Accident Reconstruction And Cause Analysis
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Curriculum Vitae For

Patrick Scott Moore, C.F.C., D.A.B.F.E., A.C.T.A.R.

A.C.T.A.R. #1094 - D.A.B.F.E. , C.F.C. #21113

EMPLOYMENT

1989-2007: Police Officer for the Arcadia Police Department, City of Arcadia, California. Eight years of patrol experience investigating an average of 100 traffic collisions per year totaling 800 collisions. Ten years as a Traffic Investigator (Detective) responsible for reviewing, analyzing, investigating, or reconstructing approximately 900 collisions per year totaling over 8000 collisions. I have personally reconstructed over 60 major traffic accidents of which 26 had fatalities. I was the lead investigator of the Arcadia Police Department Major Accident Investigation Team (MAIT).

1999-Present: Professional traffic accident reconstruction specialist with over 180 cases analyzed or reconstructed. I work civil and criminal cases, as well as, for plaintiff and defense.

EDUCATION

- § High School Diploma from San Marino High School (California), conferred in 1967.
- § Bachelor of Science in Laws degree from the California College Of Law (Los Angeles), conferred in 1978.
- § Rio Hondo Police Academy Certificate from Rio Hondo College (California), conferred in 1989.
- § Field Training Officer's Certificate from the Golden West Training Center (California), conferred in 1991.
- § Completed Traffic Accident Investigation Course by the San Bernardino County Sheriff's Office (California), 1992.
- § Completed Speed From Skids and Skid Mark Analysis Course by the University of California at Riverside (Riverside County Sheriff's Office), 1996.
- § Completed Advanced Traffic Accident Investigation Course by the Los Angeles County Sheriff's Office (California), 1997.
- § Completed Traffic Accident Reconstruction Course at the University of California at Riverside (Riverside County Sheriff's Office), 1997.
- § Certificate of Completion from the Traffic Accident Investigation Institute of the University of California at Riverside, conferred in 2000

CERTIFICATIONS/ACCOMPLISHMENTS

- § Fully Accredited Traffic Accident Reconstructionist by the **Accreditation Commission For Traffic Accident Reconstruction** (A.C.T.A.R. #1094)
- § Certificate of completion from the **University Of California at Riverside** Traffic Accident Investigation And Reconstruction Institute
- § **Diplomate of the American Board Of Forensic Examiners** (D.A.B.F.E. #21113)
- § **Fellow of the American College of Forensic Examiners** (F.A.C.F.E.I.)
- § **Certified Forensic Consultant** by the American College of Forensic Examiners (C.F.C.)
- § Attended courses certified by the State Of California Commission on Peace Officer Standards and Training (POST) in Traffic Accident Investigation and Reconstruction.

COMPUTER SKILLS

CAD (Computer Aided Drafting): I am a trained specialist capable of computer drawn factual diagrams and forensic mapping using AUTOSKETCH and/or VISUAL STATEMENT. I am also a trained reconstructionist using "ARPRO RECONSTRUCTION" software for calculating times, distances, speeds, and other pertinent information required to reconstruct collisions. I have been diagramming collision scenes since 1989. I have been reconstructing collision scenes with computer software since 1996. I am certificated as a forensic mapper. I have been trained in the use of SMAC simulations and creating 2D and 3D animations.

RELATED EXPERIENCE/TRAINING

1992: I attended a Traffic Accident Investigation school which covered the following material: Collision scene documentation including measurements, photos, videos, and report writing. Techniques for measuring and gathering evidence.

1996: I attended a Speed From Skids and Skidmark Analysis school covering the following topics: Identification and classification of skidmarks including acceleration, deceleration, critical speed scuff, centrifugal skid, and wheel assignment. Determining roadway surface coefficients of friction. Mathematics formulas to determine speed from skids and braking efficiency.

1997: I attended the Advanced Traffic Accident Investigation school covering the following topics: Vehicle lamp analysis. Mathematics formulas for determining speeds on different surfaces, times, distances, collision angles of approach and departure, conservation of momentum, and the use of a motion (time/distance/speed) analysis. Advanced scene documentation using factual diagrams. Advanced scene measuring techniques including the use of photogrammetry. Scene photography. Advanced mathematics to determine rates of acceleration, principle direction of force, vehicle orientation, kinetics, vectors, and advanced speed calculations.

1997: I attended the Traffic Accident Reconstruction school covering the following topics: Advanced vehicle speed calculations using vehicle damage (crush) formulas. Advanced vehicle speed calculations using pedestrian/bike/motorcycle throw formulas. Advanced diagramming. Determining the center of gravity and brake efficiency of commercial vehicles. Advanced

mathematics formulas to determine speeds required for vehicle flips, rollovers, and launches from the roadway. Determining vehicle speeds from a momentum analysis.

2000: Certificate of Completion in Forensic Mapping with AutoSketch (CAD) by University of California, Riverside.

2001: Attended Traffic Accident Reconstruction Conference training sponsored/hosted by the following: California Association of Accident Reconstruction Specialists, National Association of Professional Accident Reconstruction Specialists, S.O.A.R., S.T.A.R.S., and F.A.R.O..

2001: Attended course on "Human Factors In Traffic Accidents" at the University of California at Riverside.

2002: Attended course on "Vehicle Occupant Kinetics" hosted by the California Association of Accident Reconstruction Specialists.

2002: Attended the University of California, Riverside, Advanced Traffic Accident Reconstruction Course, Speed Determination From Vehicle Crush.

2003: Attended course on "Tire Failure" hosted by the California Association of Accident Reconstruction Specialists.

2003: Attended "Traffic Accident Investigation and Motor Vehicle Inspections" by the Riverside County Sheriff's Office and the Riverside Community College.

2003: Collision kinematics/biomechanics (injury mechanisms and forces) at the Traffic Accident Reconstruction Institute at the University of California, Riverside.

2003: Attended CAARS Conference and training on motorcycle, scooter, roller blades, skateboard, and other in-line wheeled vehicle collisions.

2003: Commercial Vehicle Accident Investigation at the Traffic Accident Investigation and Reconstruction Institute at the University of California, Riverside.

2004: Advanced Commercial Vehicle Accident Investigation at the Traffic Accident Investigation And Reconstruction Institute at the University of California, Riverside.

2005: Advanced Collision Investigation (Auto -vs- Pedestrian/Bike), Ben Clark Public Safety Training Center, Riverside, California.

2005: Attended ARC-CSI conference and training on child seats and restraints, seat belts, airbags, and speed from vehicle momentum hosted by the Collision Safety Institute.

2005: Attended the American College Of Forensic Examiners Institute Conference. Training on forensic consultation and expert witness issues. Took Certified Forensic Consultant exam.

2005: Attended CAARS conference and training on "Investigating Emergency Vehicle Collisions". Hosted by the California Association of Accident Reconstruction Specialists.

2005: Attended SATAI conference and training on pedestrian, bicycle, motorcycle collisions, and, forensic mapping.

2006: Attended CAARS conference on Working in Energy and Skid Mark Analysis/Review.

2006: Attended ARC-CSI conference with training in motorcycle, pedestrian, motorhome, fire truck, and vehicle rollover crashes. Crash tests conducted.

2006: Attended SATAI conference with training in commercial vehicle accident investigation.

2007: Attended SATAI conference with training in the "Conservation of Linear Momentum".

2007: Attended ARC-CSI conference with training in traffic accident reconstruction to include crash tests.

2007: Attended CAARS conference with training in the use of "Conservation of Linear Momentum" in traffic accidents.

2007: Attended second SATAI conference with training in techniques to reconstruct traffic accidents.

2008: Attended ARC-CSI conference with training in the use of a momentum analysis to determine vehicle speed, pedestrian accident analysis, engine idle acceleration, use of photogrammetry in accident analysis, and motorcycle accident analysis. Crash testing conducted.

2008: Attended ACFEI conference with presentations regarding low speed collision whiplash cases, preparation for deposition and court testimony, and effective expert witness court testimony.

2008: Attended SATAI conference with training in "Uniform Circular Motion and Critical Speed Yaw", and "Rotational Mechanics In traffic Accidents".

2009: Attended IPTM conference "Special Problems in Traffic Accident Reconstruction" with training in the areas of pedestrian collisions, vehicle drag factors, commercial vehicle foundation brakes, use of collision simulations, motorcycle lateral acceleration/lean angles, vehicle damage profile analysis, and vehicle airborne trajectories and analysis.

1997-Present: I have reconstructed numerous of the following types of collisions:

- I. Auto-vs-Auto
- II. Auto-vs-Pedestrian
- III. Auto-vs-Bicycle
- IV. Auto-vs-Fixed Object (Pole or Tree)
- V. Auto-vs-Motorcycle
- VI. Auto-vs-Commercial Vehicle (trucks and buses)

2001-Present: I have participated in numerous vehicle and commercial vehicle acceleration and deceleration tests, crash tests, and vehicle inspections.

1989-Present: I have extensive experience with DUI (Driving Under The Influence) criminal cases. I have reviewed/filed numerous DUI cases.

1989-Present: I have testified in court as an expert witness and Traffic Accident Reconstructionist. I am recognized as a traffic accident expert at the Santa Anita, Pasadena, and city of Los Angeles Superior Courts in the county of Los Angeles, San Diego County Superior Court, Santa Cruz County Superior Court, Orange County Superior Court, and the San Bernardino County Superior Court, all in the State Of California.

PROFESSIONAL ASSOCIATIONS

National Association Of Professional Accident Reconstruction Specialists
(N.A.P.A.R.S.)
California Association Of Accident Reconstruction Specialists (C.A.A.R.S.)
American College Of Forensic Examiners International (A.C.F.E.I.)
Accreditation Commission for Traffic Accident Reconstruction (A.C.T.A.R.)
Southwestern Association Of Technical Accident Investigators (S.A.T.A.I.)

Member of:

California Association Of Accident Reconstruction Specialists (C.A.A.R.S.)
National Association Of Professional Accident Reconstruction Specialists (N.A.P.A.R.S.)
Accreditation Commission On Traffic Accident Reconstruction (A.C.T.A.R.)
American College Of Forensic Examiners (A.C.F.E.)