

ARU

Accident Reconstruction Unit

A DIVISION OF AVALON

741 Main Street

Buffalo, New York 14203

T: 716-995-7777 | F: 716-995-7778

www.accidentinvestigationexperts.com

Mark W. Turner

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Curriculum Vitae

OVERVIEW

Mark Turner is an ACTAR accredited Collision Reconstructionist assisting in or directly reconstructing over 900 collisions. During his 25 year Law Enforcement career as a Trooper with the South Carolina Highway Patrol, Mark investigated both crime scenes and motor vehicle collisions. Mark was assigned to the Multi-Disciplinary Accident Investigation Team (MAIT) in September of 2009, where his focus was solely on the reconstruction of major collisions. Mark provided investigation, research, and reconstruction of motor vehicle collisions involving property damage, physical injury, and death, not only for the purposes of criminal prosecution but to bring closure for the families involved. These investigations included the use of applicable theories in collision reconstruction and the fulfillment of reporting requirements as stipulated by the South Carolina Highway Patrol.

Mark is an expert at forensic mapping and diagramming of any incident to include: motor vehicle collisions, crime scenes, and various non-collision related incidents. He has conducted and participated in testing to include, but not limited to: acceleration/deceleration, pedestrian speeds, time/distance analysis, nighttime sight distance and perception reaction time, and the validity of Event Data Recordings to substantiate applied theories in collision reconstruction.

Mark's investigation and leadership experience led to his promotion as a team leader within MAIT. Mark specializes in the analysis and application of Event Data Recordings and Human Factors as they relate to the totality of collision reconstruction. Mark is also an expert in vehicle lamps, Pedestrian / Bicycle, and motorcycle collisions. Mark also has extensive training and practical experience conducting interviews and interrogations, focusing on techniques of deception to include, behavioral tendencies, body language, and written statement analysis.

PROFESSIONAL ACCOMPLISHMENTS

Trooper, South Carolina Highway Patrol, Columbia, South Carolina, 8/1994 – 8/2019

- Responsible for managing a team of Investigators as well as the investigation and reconstruction of hundreds of motor vehicle collisions involving property damage, serious physical injury and death, which included the use of applicable theories in collision reconstruction. Testify as an expert witness in criminal and civil cases as well as depositions.
 - Road Trooper for 15 years
 - SCHP MAIT Team member for 10 years
 - **ACTAR** accredited Collision Reconstructionist #2368
 - SCHP Lead **EDR** Analyst
 - MAIT Team Leader (Corporal)

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- Conduct Collision / Crime Scene photography, video, forensic mapping
- Conduct General Vehicle Examinations
- Image and Analyze **EDR** data
- Complete Computer Assisted Drawings
- Calculate vehicle speeds based on the totality of collision scene / vehicle evidence / **EDR** Data
- Conduct interviews / interrogations of drivers, occupants, and witnesses
- Identify Hit and Run Vehicles and Drivers through the collection of Scene Evidence, Vehicle Debris, Interviews / Interrogations, **DNA** Evidence, and Fragmentation Analysis.
- Determine potentially fraudulent activity / intentional acts with regard to collisions
- Determine if the collision is a result of a tire failure
- Determine if the vehicle's lamps were incandescent at the time of the collision
- Conduct advanced time and distance studies
- Determine the **Human Factor** element of each collision
- Determine vehicle occupant placement through **Occupant Kinematics**
- Testify in court as an expert witness in Collision Reconstruction and **EDR** data

EDUCATION

- Institute of Police Technology and Management (IPTM), Jacksonville, Florida – Continuing Education, 1/2003 - Present
- South Carolina State Police Academy, 8/1994 – 11/1994
- Greenville Technical College, Greenville, South Carolina, 1989 – 1994
- Woodruff High School, Woodruff, South Carolina, 1986 – 1989
- Over 1300 hours of Collision Reconstruction Education

SPECIALIZED COLLISION RECONSTRUCTION TRAINING

- **World Reconstruction Exposition WREX** 40hrs 5/2016
- **Vehicle Lamp Examination for Traffic Crash Investigators** IPTM 16hrs 8/2015
- **Southeastern Collision Reconstruction Conference SCARS** 40hrs 7/2015
- **Advanced Collision Reconstruction with CDR Applications** Brad Muir / Gregg Russell 40hrs 5/2015
- **Bridgestone / Firestone Tire Technology Clinic** T.J. Tennent 8hrs 4/2015
- **Cultural Professionalism and Conflict Resolution** DOJ 8hrs 3/2015
- **CDR Summit** Rusty Haight 24hrs 1/2015
- **Behavioral Assessment and Kinesics Interviewing** James Koehler 8hrs 4/2014
- **Advanced Motorcycle Crash Analysis** Wade Bartlett 40hrs 4/2014
- **CDR Summit** Rusty Haight 24hrs 1/2014
- **CDR Technician Train the Trainer** Rusty Haight 8hrs 1/2014
- **Southeastern Collision Reconstruction Conference SCARS** 40hrs 7/2013
- **Edge FX Computer Assisted Drawing** Visual Statement 40hrs 6/2013
- **Edge FX Animation** SCDPS Training 24hrs 4/2013
- **Hit and Investigations** SCDPS Training 8hrs 3/2013
- **CDR Data Analyst** Rusty Haight 40hrs 3/2013
- **CDR Summit** Rusty Haight 24hrs 1/2013

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- **Advanced Pedestrian / Bicycle Crash Investigation** IPTM 40hrs 6/2012
- **Energy Methods and Damage Analysis in Traffic Crash Reconstruction** Daily/Shigemura 40hrs 4/2012
- **Pennsylvania State Police Collision Reconstruction Seminar** PSP 40hrs 9/2011
- **Bosh CDR Technician Level One and Two** SCDPS Training 16hrs 8/2011
- **Vehicle Nomenclature / Tire Examination** SCDPS Training 8hrs 7/2011
- **Commercial Vehicle Post Crash Inspections** Tommy Sturdivan 40hrs 4/2011
- **Human Factors for Traffic Crash Reconstruction** Jeff Muttart 40hrs 1/2011
- **Motorcycle Collision Reconstruction** SCCJA 40hrs 10/2010
- **Southeastern Collision Reconstruction Conference** SCARS 40hrs 7/2010
- **Grade Crossing Collision Investigation** CSX 8hrs 6/2010
- **FBI Interview Interrogation and Statement Analysis** FBI 16hrs 12/2009
- **Interviews and Body Language Techniques** St. Petersburg College 8hrs 11/2009
- **Crash Scene Photography** SCDPS Training 16hrs 11/2009
- **Collecting DNA Evidence at Property Crimes** On-Line Course 3hrs 10/2009
- **Inspection and Investigation of Commercial Vehicle Crashes** IPTM 40hrs 7/2006
- **Pedestrian / Bicycle Crash Investigation** IPTM 40hrs 1/2003
- **Interviewing and Interrogation** SCDPS Training 24hrs 12/2002
- **Computerized Collision Diagramming** SCDPS Training 40hrs 11/2002
- **Forensic Mapping Technology** SCDPS Training 40hrs 11/2002 8hrs 1/2010
- **Traffic Collision Reconstruction** SCDPS Training 80hrs 9/2002
- **Advanced Collision Investigation** SCDPS Training 80hrs 8/2002
- **At-Scene Traffic Collision Investigation** SCDPS Training 80hrs 7/2002
- **Advanced Accident Investigation and Reconstruction** SCDPS Training 120hrs 3/1997

SPECIALIZED FORENSIC TRAINING

- Forensic Crime Scene Mapping
- DNA Collection at Crime Scenes
- Crime Scene Investigator Training
- Forensic Photography Training
- Nikon Camera Training

ADDITIONAL EDUCATION

- Identifying Deceptive Body Language
- Interview & Interrogation Techniques
- Identifying Deceptive Written Statements
- Behavioral Assessment and Kinesics Interviewing
- Cultural Professionalism and Conflict Resolution
- Field Training Officer Program
- Background Investigations
- Securing the Human Cyber Security