



WARREN

**THE WARREN GROUP, INC.** FORENSIC ENGINEERS & CONSULTANTS  
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***Mark Turner, ACTAR #2368***

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Senior Collision Reconstructionist

**Collision Investigation and Reconstruction**

**Crash Data Retrieval**

**Motorcycle Collision Reconstruction**

**Pedestrian/Bicycle Collision Reconstruction**

**Tractor Trailer Accidents**

**Vehicle Lamp Examination**

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## EDUCATION

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<b>2002</b>	<b>Advanced Collision Investigation Training</b> South Carolina Department of Public Safety
<b>2002</b>	<b>At-Scene Traffic Collision Investigation Training</b> South Carolina Department of Public Safety
<b>1997</b>	<b>Advanced Accident Investigation and Reconstruction Training</b> South Carolina Department of Public Safety
<b>1994</b>	<b>Law Enforcement Basic</b> South Carolina State Police Academy
<b>1989 to 1994</b>	<b>Greenville Technical College</b> Greenville, South Carolina
<b>1989</b>	<b>Woodruff High School</b> Woodruff, South Carolina

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## EXPERIENCE

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<b>April 2022 to Present</b>	<p>The Warren Group, Inc., Irmo, South Carolina. Senior Collision Reconstructionist. Utilizes advanced knowledge and skillsets honed over 25 consecutive years and over 1000 complex wrecks to reconstruct motor vehicle accidents incorporating forensic mapping and animation through state-of-the-art technology.</p> <p><b>Vehicle Accident Reconstruction</b></p> <p>Reconciles witness statements with physical evidence from incidents involving heavy trucks, commercial vehicles, automobiles, motorcycles, bicycles, pedestrians, wildlife and human factors.</p> <p>Compiles and analyzes data to determine time, speed, and distance relationships. Determines coefficient of friction and drag factors for sliding vehicles. Completes conservation of linear momentum and vehicle dynamics calculations. Conducts vehicle crush energy analyses.</p> <p>Determines principle direction of forces and critical speed yaw. Verifies speed and dynamics involved in spins and rollover. Calculates airborne and projectile trajectories. Evaluates seatbelt and occupant restraint performance, as well as overall highway safety compliance.</p> <p><b>Event Data Recorder (EDR)</b></p> <p>Recovery, imaging, and analysis of the retrieved data from crash data collectors “i.e., black boxes” in automobiles, light trucks, and sport utility vehicles (SUVs).</p>
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**EXPERIENCE (CONTINUED)**

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**Vehicle Systems**

Determines brake effectiveness. Evaluates event data recorder data after airbag deployment/nondeployment events. Conducts headlight filament analysis (On/Off determination). Analysis of mechanical component malfunctions and failures related to vehicle accidents.

**2020 to 2022** Senior Accident Reconstructionist, Vector Group, South Carolina Conducted passenger vehicle, motorcycle, pedestrian, and tractor trailer accident reconstructions.

**2019 to 2020** Senior Collision Reconstructionist, Avalon, Buffalo, New York Conducted passenger vehicle, motorcycle, pedestrian, and tractor trailer accident reconstructions.

**2009 to 2019** South Carolina Highway Patrol, Columbia, South Carolina Multi-Disciplinary Accident Investigation Team (MAIT)

- Promoted to Corporal 2018.
- Responsible for the review of cases across the state of South Carolina.
- Responsible for case presentations in court, family meetings, and internal training.
- Supervised team members at active crash scenes at active call outs and deferred response crashes.
- Team Supervisor
- Lead Investigator, Responsible for the supervision of investigators at crash scenes, and their case work.
- Bosch Crash Data Retrieval (CDR) Analyst and Trainer.
- Assisted, directed, educated and counseled the public in matters consistent with the mission of the SCHP.
- Cooperated and communicated with other law enforcement agencies in common objectives.
- Responsible for the collection, processing, and storage of evidence.

**2002 to 2008** South Carolina Highway Patrol (SCHP), Chesterfield County, Multi-Discipline Accident Investigation Team (MAIT) Associate Traffic Enforcement, Accident Investigation, and Public Safety. Responded to emergencies and disasters with all available resources.

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## PROFESSIONAL ORGANIZATIONS & REGISTRATIONS

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Accreditation Commission for Traffic Accident Reconstructionist (ACTAR) #2368

International Association of Accident Reconstruction Specialists (IAARS) Member

National Association of Professional Accident Reconstructionist Specialists (NAPARS) Member

South Carolina Association of Reconstruction Specialists (SCARS) Member

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## CONTINUING EDUCATION

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### Collision Reconstruction Specific:

- Heavy Vehicle Electronic Control Module Data Use in Crash Reconstruction (40hrs) 11/2022
- Collision Safety Institute CDR Update (24hrs) 8/2020
- World Reconstruction Exposition WREX (40hrs) 5/2016
- Vehicle Lamp Examination for Traffic Crash Investigators IPTM (16hrs) 8/2015
- 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
- Behavioral Assessment and Kinesics Interviewing, James Koehler (8hrs) 4/2014
- Advanced Motorcycle Crash Analysis, Wade Bartlett (40hrs) 4/2014
- CDR Technician Train the Trainer, Rusty Haight (8hrs) 1/2014
- Edge FX Computer Assisted Drawing, Visual Statement (40hrs) 6/2013
- Edge FX Animation, SCDPS Training (24hrs) 4/2013
- Hit and Run Investigations, SCDPS Training (8hrs) 3/2013
- CDR Data Analyst, Rusty Haight (40hrs) 3/2013
- Advanced Pedestrian/Bicycle Crash Investigation IPTM (40hrs) 6/2012
- Energy Methods and Damage Analysis in Traffic Crash Reconstruction, Daily/Shigemura (40hrs) 4/2012
- 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
- 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 (16hrs) 11/2009

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## **CONTINUING EDUCATION (Continued)**

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- 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 (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**

- Event Data Recorder (EDR) Analyst & Train the Trainer
- Forensic Scene Mapping
- Forensic Photography Training
- Nikon Camera Training
- 3D Scanning and Processing
- Reveal Software

### **Additional Education**

- Identifying Deceptive Body Language
- Interview and 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

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## **TRAINING CONFERENCES ATTENDED**

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Crash Data Retrieval User's Summit: 2013, 2014, and 2015

National Association of Professional Accident Reconstructionists (NAPARS) Joint Conference: 2020

Pennsylvania State Police Collision Reconstruction Seminar: 2011

Southeastern Collision Reconstruction Conference: 2010, 2013, 2015, 2021, 2022

Texas Association of Accident Reconstructionist Conference: 2020