



WARREN

THE WARREN GROUP, INC. FORENSIC ENGINEERS & CONSULTANTS
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Aaron L. Duncan II, ACTAR

Senior Collision Reconstructionist

Vehicle Collision Investigation and Reconstruction

Crash Data Retrieval

Motorcycle Collision Reconstruction

Pedestrian/Bicycle Reconstruction

Vehicle Lamp Examination

EDUCATION

- 1994** **Bachelors of Science in Political Science**
Lander University
- 1994** **Law Enforcement Basic**
South Carolina Criminal Justice Academy

EXPERIENCE

- August 2017 to Present** **The Warren Group, Inc., Irmo, South Carolina.**
Collision Reconstruction
- Vehicle collision reconstruction using time and distance analysis, conservation of linear momentum, vehicle crush analysis, determination of principle direction of forces, vehicle dynamics, and analysis of brake effectiveness.
 - Analysis of retrieved data from crash data collectors in automobiles, light trucks, and SUVs.
 - Analysis of mechanical component malfunctions and failures related to vehicle accidents.
 - Reconciling witness statements with physical evidence.
 - Forensic mapping and animation for collision scene analysis.
 - Investigation of commercial vehicle/heavy trucks, automobiles, motorcycles, bicycles and pedestrian/vehicle incidents.
- 2016 – 2017** **South Carolina Highway Patrol, Piedmont Region, South Carolina**
Multi-Disciplinary Accident Investigation Team (MAIT)
- Promoted to Sergeant 2016.
 - Responsible for the supervision of the team and all investigations, covering 12 counties of the upstate within two troops (Troop 2 and Troop 3) of the SCHP.
 - 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.

EXPERIENCE, Continued

- 2012 - 2016** **South Carolina Highway Patrol, Piedmont Region, South Carolina**
Multi-Disciplinary Accident Investigation Team (MAIT)
- Executive Officer
 - Lead Investigator
Responsible for the supervision of investigators at crash scenes, and their case work.
 - Team Crash Data Retrieval Technician 1 & 2, and Analyst;
Trained in imaging and analyzing data from vehicle Event Data Recorders
 - Evidence Technician
Responsible for the collection, processing, and storage of evidence.
- 2008 - 2012** **South Carolina Highway Patrol, Foothills Region, South Carolina**
Multi-Discipline Accident Investigation Team (MAIT)
- Promoted to Corporal 2009
 - Team Leader
 - Evidence Technician
- 2004 - 2008** **South Carolina Highway Patrol, Abbeville / Greenwood County, South Carolina**
- Traffic Enforcement, Accident Investigation, and Public Safety
 - MAIT Associate
Assisted the MAIT Team with investigations and completed advanced investigations.
- 1997 - 2004** **South Carolina Highway Patrol, Newberry / Laurens County, South Carolina**
- Traffic Enforcement, Accident Investigation, and Public Safety
 - Civil Emergency Response Team (CERT)
 - MAIT Associate
Assisted the MAIT Team with investigations and completed advanced investigations.
 - STOP Team
 - Assistant Public Information Officer / Traffic Accident Victim Assistance Officer
- 1994 - 1997** **South Carolina Highway Patrol, Marlboro County, South Carolina**
- Traffic Enforcement, Accident Investigation, and Public Safety

PROFESSIONAL ORGANIZATIONS & REGISTRATIONS

Accreditation Commission for Traffic Accident Reconstructionist (ACTAR) #2287

International Association of Accident Reconstruction Specialists (IAARS) Member

South Carolina Association of Reconstruction Specialists (SCARS) Member

- Organization Secretary from 2013 to Present

Blue Knights International Motorcycle Group (SC7 Chapter) 2006 to Present

- President from 2009 to 2015
- Organizes Charity Event Rides to assist S.C. Area 5 Special Olympics

CONTINUING EDUCATION

Collision Reconstruction Specific:

- Advanced Accident Investigation and Reconstruction (120Hrs) 10/1998
- Forensic Mapping Technology (40Hrs) 03/1999
- At-Scene Traffic Collision Investigation (80Hrs) 07/2002
- Advanced Collision Investigation (80Hrs) 08/2002
- Traffic Collision Reconstruction (80Hrs) 10/2002
- Computerized Collision Diagramming (40Hrs) 10/2002
- Collision Forensic Investigative Techniques (40Hrs) 11/2002
- Forensic Mapping Technology (40Hrs) 11/2002
- Interviewing and Interrogation (24Hrs) 12/2002
- Grade Crossing Collision Management Course (8Hrs)05/2007
- Crash Data Retrieval System Technician (8 hours each): 2008, 2009, 2011, 2012, 2013,2014, 2016
- DNA Evidence: Investigators and Evidence Technicians
- DNA Evidence: First Responding Officers
- Advanced Crime Scene Photography Techniques (16Hrs) 10/2008
- Latent Print Development 08/2009
- Traffic Crash Reconstruction at Traffic Signals (16Hrs) 08/2009, 12/2015
- Collecting DNA Evidence at Property Crime Scenes 10/2009
- Interviewing and Body Language Techniques (8Hrs) 11/2009
- FBI Interview Interrogation and Statement Analysis course (16Hrs) 12/2009
- SmartRoads Computer Assisted Drawing (8Hrs) 2/2010
- Grade Crossing Collision Investigation Class 06/2010
- Motorcycle Collision Reconstruction (40Hrs) 09/2010
- Human Factors for Traffic Crash Reconstruction 01/2011

CONTINUING EDUCATION, Continued

- Commercial Vehicle Post Crash Inspection (40Hrs) 04/2011
- Pedestrian/Bicycle Reconstruction (40Hrs) 05/2011
- Occupant Kinematics for the Traffic Crash Reconstructionist (40Hrs) 06/2011
- Vehicle Nomenclature / Tire Examination (8Hrs) 07/2011
- Energy Methods and Damage Analysis in Traffic Crash Reconstruction (40Hrs) 04/2012
- Advanced Pedestrian / Bicycle Crash Investigation (40Hrs) 06/2012
- Basic Detective (40Hrs) 02/2013
- MFX Mapping and EdgeFX Animation Class (20Hrs) 04/2013
- Interviews and Interrogations, CDR Update, and Hit and Run Investigations (8Hrs) 03/2013
- Advanced Motorcycle Crash Analysis (40Hrs) 04/2014
- Behavioral Assessment and Kinesics Interviewing (6CEH) 04/2014
- TN HP Tire Failure Analysis Class (4 Hrs) 05/2014
- TN HP Commercial Vehicle Foundation Brakes Class (4Hrs) 5/2014
- Crash Data Retrieval Specialist (40Hrs) 03/2015
- Tire Technology Clinic (8Hrs) 04/2015
- Advanced Collision Reconstruction with CDR Applications (40Hrs) 04/2015
- Vehicle Lamp Examination for Traffic Crash Investigators (16hrs) 08/2015
- Crash Data Retrieval Technician, Train the trainer certification 1/24/2016
- Momentum, Principle Direction of Force, and Crash Data Retrieval (24hrs) 01/2017
- Using Excel in Accident Investigations (40Hrs) 5/2017

Leadership Focused:

- First Line Supervision (40Hrs) 11/2009
- Emergency Management Institute's ICS 300 11/2009
- Professional Presentation Skills (.6 CEUS) 03/2011
- Business Writing 6.0 (.6 CEUS) 03/2011
- SCDPS Law Enforcement Leadership Series 03/2011
- Cultural Professionalism and Conflict Resolution (4Hrs) 03/2015

General Training:

- South Carolina Highway Patrol Basic Law Enforcement 08/1994
- Police Radar – Speed Measuring Devices 06/1995 thru 2009
- Basic Public Information Course (24Hrs) 01/2003
- Basic Instructor 07/2007
- Background Investigation (8Hrs) 09/2010
- BMW Performance Driving School 12/2014

TRAINING CONFERENCES ATTENDED

Southeastern Collision Reconstruction Conference: 2008, 2010, 2013, 2014, 2015, and 2017

Pennsylvania State Police Collision Reconstruction Seminar: 2009, 2011, and 2014

Tennessee Traffic Crash Investigation and Safety Symposium: 2013, 2014, 2015, and 2017

Crash Data Retrieval User's Summit: 2015, 2016, and 2017