

# **T-M ACCIDENT RECONSTRUCTION, LLC**

Traffic Accident Reconstruction and Analysis  
Full Accreditation Since 1998 (ACTAR)

726 E. Main Street  
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Lebanon, Ohio 45036  
Email: tmcash804@gmail.com  
Phone: (937) 218-6314

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## ACCIDENT RECONSTRUCTION CURRICULUM VITAE

### **Terry W. McClanahan, ACTAR**

Principal Accident Reconstructionist

#### **PROFESSIONAL SUMMARY**

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My accident investigation experience has involved approximately 200 or more fatal accidents. Approximately 3,000 injury & non-injury accidents and approximately 500 reconstructions. I have approximately 31 years of experience in the field of accident reconstruction. I have received approximately 2000 hours of specialized/technical training courses or technical seminars. I am a fully accredited accident reconstructionist (ACTAR) since 1998 and have renewed my accreditation in 2003, 2008, 2013, 2018, 2023 through 2028. I have handled accidents that have occurred in the State of Ohio, West Virginia, Tennessee, Michigan, Kentucky, Florida, Georgia, New Jersey, North Carolina, Indiana.

I have previously been an adjunct instructor for the State of Ohio (Ohio Peace Officer's Training Academy – Office of the Ohio Attorney General) in Collision Investigation (Level - 1), Advanced Collision Investigation (Level - 2), Vehicle Dynamics (Level - 3), Collision Reconstruction (Level - 4), Advanced Collision Reconstruction (*Quadratic Equations, Simultaneous Equations, Rotational Mechanics, Speed from Trailer Under-Ride*), Investigation and Reconstruction of Pedestrian & Bicycle Collisions, Crush & Energy Analysis, etc.

Some of the types of analysis performed include but not limited to: rollovers, airbornes, intersection impacts, sight obstructions, airbag control module data imaging & analysis, crush damage/energy, rotational mechanics, conservation of linear momentum analysis, left of center, planar impact analysis, velocity-time-distance analysis, occupant kinematics.

#### **PROFESSIONAL CRASH RECONSTRUCTION EXPERIENCE**

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|-----------------|---|
| 2009 - Present: | <u>T-M Accident Reconstruction, LLC</u> <ul style="list-style-type: none"><li>▪ Principal Accident Reconstructionist</li></ul>  |
| 2008 - 2015:    | <u>Butler County Sheriff's Office</u> <ul style="list-style-type: none"><li>▪ Crash Reconstruction Unit / Investigations Division</li><li>▪ Specialist/Deputy Sheriff</li></ul> |
| 2007 - 2020:    | <u>Ohio Peace Officer's Training Academy</u> <ul style="list-style-type: none"><li>▪ Adjunct Instructor – Crash Reconstruction Topics</li></ul>                                 |
| 2006 - 2008:    | <u>Introtech Crash Reconstruction Services</u> <ul style="list-style-type: none"><li>▪ Crash Reconstructionist / Consultant</li></ul>   |
| 1985 - 2006:    | <u>Sugarcreek Township Police Department</u> <ul style="list-style-type: none"><li>▪ Police Officer / Crash Reconstructionist (Retired)</li></ul>                               |

#### **FORMAL EDUCATION**

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| 2003: | B.S. Degree, Organizational Management, Wilberforce University (Wilberforce, Ohio) |
| 1979: | A.S. Degree, Law Enforcement, Sinclair Community College (Dayton, Ohio)            |

**ACCIDENT RECONSTRUCTION ACCREDITATION**

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1998– 2028    Full Accreditation as an Accident Reconstructionist  
Accreditation Commission for Traffic Accident Reconstruction (ACTAR)

**PROFESSIONAL & TECHNICAL TRAINING COURSES**

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1.     **2019    Advanced Traffic Collision Reconstruction Course**  
Ohio Peace Officer's Training Academy  
London, Ohio
2.     **1994    Traffic Accident Reconstruction Course**  
University of North Florida  
London, Ohio
3.     **2009    Traffic Crash Reconstruction Update Course**  
University of North Florida  
London, Ohio
4.     **1997    Traffic Accident Reconstruction Refresher Course**  
University of North Florida  
City of Dayton, Ohio Police Academy
5.     **2009    Energy Methods & Damage Analysis in Crash Reconstruction Course**  
University of North Florida  
West Chester, Ohio Police Department
6.     **1998    Vehicle Damage & Energy Relationship in Collision Reconstruction Course**  
Texas A&M University  
City of Dayton, Ohio Police Academy
7.     **2018    Basic Crush Protocol and Review**  
Ohio Traffic Accident Reconstruction Association  
West Chester, Ohio Police Department
8.     **2014    Occupant Kinematics for the Traffic Crash Reconstructionist Course**  
University of North Florida  
West Chester, Ohio Police Department
9.     **1996    Biomechanics for Traffic Accident Reconstruction Course**  
Texas A&M University  
City of Collinsville, Illinois
10.    **1999    Applied Physics for Traffic Accident Investigators Course**  
University of North Florida  
Union Township, Ohio Police Department

11.    **2004**    **Advanced Traffic Crash Reconstruction with WinCrash Course**  
University of North Florida  
City of Jacksonville, Florida
12.    **2000**    **Advanced Crash Reconstruction with WinSMAC Course**  
University of North Florida  
City of Jacksonville, Florida
13.    **2013**    **Advanced Traffic Collision Reconstruction Course**  
Ohio Peace Officer's Training Academy  
London, Ohio
14.    **2021**    **Pedestrian Bicycle Crash Investigation**  
Ohio Traffic Accident Reconstruction Association  
West Chester, Ohio Police Department
15.    **1995**    **Investigation of Pedestrian Accidents and Human Factors**  
University of North Florida  
City of Dayton, Ohio
16.    **2022**    **Investigation of Pedestrian Collisions**  
University of North Florida  
VOD On-line
17.    **2001**    **Special Problems in Traffic Crash Reconstruction Seminar**  
University of North Florida  
City of Jacksonville, Florida
  - Post Collision Drag from Spin
  - Vehicle Damage analysis
  - Predicting Driver Perception-Reaction Time
  - Vehicle Occupant Evidence
  - Practical Evidence Interpretation
  - Bicycle Crash Dynamics
  - Collision Scene Mapping
  - Black Box Technology in Cars & Light Trucks
  - Tire Failure Analysis & Litigation
  - Traffic Engineering & Reconstruction
  - Staged Crash Testing
18.    **2011**    **Crash Data Retrieval System & Analysis & Applications Course**  
Crash Data Specialists, LLC  
City of Dayton, Ohio Police Academy
19.    **2019**    **EDR Update and Calculating Impact Speed From EDR Pre-Crash Data**  
Ohio Traffic Accident Reconstruction Association  
West Chester, Ohio Police Department

20.   **2005**    **Crash Investigation & Reconstruction Update 2005 Seminar**  
National Association of Professional Accident Reconstruction Specialists/  
Ohio State Highway Patrol Academy  
City of Columbus, Ohio
  - Rotational Mechanics
  - Commercial Air Brake Systems
  - Drag Sled/VC3000/Escort G-Timer Testing & Comparison
  - CDR System Overview
  - Commercial Vehicle EDRS
  - DNA Fatal Crashes
  - Criminal Prosecutions in Fatal Crashes
  - Staged Crash Testing
21.   **2012**    **Traffic Collision Reconstruction Refresher Seminar**  
Ohio Peace Officer's Training Academy  
London, Ohio
22.   **2009**    **Reconstruction of Collisions Involving Airborne's Course**  
Ohio Peace Officer's Training Academy  
London, Ohio
23.   **2012**    **CRASH3 Impact Model and Advanced Momentum Techniques in Traffic Crash Reconstruction Seminar**  
Ohio Traffic Accident Reconstruction Association  
City of Columbus, Ohio Police Academy
24.   **2016**    **Momentum and Vectors for the Reconstructionist Seminar**  
Ohio Traffic Accident Reconstruction Association  
West Chester, Ohio Police Department
25.   **2018**    **Momentum and Vectors for the Reconstructionist Seminar**  
Ohio Traffic Accident Reconstruction Association  
West Chester, Ohio Police Department
26.   **2011**    **Rotational Mechanics Seminar**  
Ohio Traffic Accident Reconstruction Association  
City of Columbus, Ohio Police Academy
27.   **2017**    **Basic Spin Analysis Seminar**  
Ohio Traffic Accident Reconstruction Association  
West Chester, Ohio Police Department
28.   **2008**    **Reconstruction Seminar**  
Ohio Traffic Accident Reconstruction Association  
West Chester, Ohio Police Department
  - Narrow Object Collision Reconstruction
  - Applied Statistics for the Collision Reconstructionist

29.   **1990**    **Advanced Traffic Accident Investigation (Level II) Course**  
Ohio Peace Officer's Training Academy  
London, Ohio
30.   **1987**    **Traffic Accident Investigation (Level I) Course**  
Ohio Peace Officer's Training Academy  
London, Ohio
31.   **2010**    **Investigation of Collisions Involving Public Safety Vehicles Course**  
Ohio Peace Officer's Training Academy  
London, Ohio
32.   **2015**    **Crash Reconstruction Using Video Evidence Seminar**  
Ohio Traffic Accident Reconstruction Association  
West Chester, Ohio Police Department
33.   **2016**    **Civil Engineering for the Reconstructionist Seminar**  
Ohio Traffic Accident Reconstruction Association  
West Chester, Ohio Police Department
34.   **2009**    **Railroad Grade Crossing Collision Investigation Course**  
Ohio Peace Officer's Training Academy  
London, Ohio
35.   **2003**    **Low Speed Impact in Accident Reconstruction Course**  
Northcoast Polytechnic Institute  
City of Centerville, Ohio Police Department
36.   **2022**    **Pavement Edge Drop Off**  
University of North Florida  
VOD – Online
37.   **2022**    **Forensic Evidence Recovery for Crash Investigators**  
University of North Florida  
VOD – Online
38.   **2006**    **Technology Issues in Accident Reconstruction Course**  
Northcoast Polytechnic Institute  
City of Centerville, Ohio Police Department
39.   **1999**    **Heavy Vehicle Crash Reconstruction Course**  
Northwestern University Traffic Institute  
City of North Bend, Indiana

40.    **1997    Inspection and Investigation of Commercial Vehicle Accidents Course**  
University of North Florida  
Union Township, Ohio Police Department (Butler County)
41.    **2012    Commercial Motor Vehicle Collision Investigation Level III Course**  
Ohio Peace Officer's Training Academy  
London, Ohio
42.    **2007    Commercial Vehicle Accident Investigation, Airbags / Black Boxes Seminar**  
Northcoast Polytechnic Institute  
City of West Lake, Ohio
43.    **2022    Preservation of Crucial Evidence in Commercial Motor Vehicle Crashes**  
University of North Florida  
VOD - Online
44.    **2009    Commercial Motor Vehicle 2009 Legal Update Seminar**  
Ohio Peace Officer's Training Academy  
City of London, Ohio
45.    **2021    Commercial Vehicle Crash Investigation Seminar**  
Ohio Traffic Accident Reconstruction Association  
West Chester, Ohio Police Department
46.    **2008    Commercial Vehicle Enforcement Seminar**  
Clinton County Sheriff's Office  
City of Wilmington, Ohio
47.    **2007    Comprehensive Air Brake Systems Training Program Course**  
Bendix Corporation  
City of Huntington, Indiana
48.    **1999    Acceleration and VC2000 Familiarization Course**  
Vericom Computers, Inc.  
Butler Co. Engineers Office – City of Hamilton, Ohio
49.    **2010    Acceleration and Vericom Computer Familiarization Course**  
Vericom Computers / Ohio Peace Officer's Training Academy  
London, Ohio
50.    **1996    Investigation of Motorcycle Accidents**  
University of North Florida  
City of Dayton, Ohio

51.     **1999    13<sup>th</sup>Annual IATAI Accident Reconstruction Conference Seminar (Motorcycle Crash Reconstruction)**  
Illinois Association of Traffic Accident Investigators  
City of Collinsville, Illinois
52.     **2025    RECON-3D Training Course**  
Recon-3D Company  
Zoom – Online
53.     **2025    RECON-3D User Group Meeting**  
Recon-3D Company  
Zoom - Online
54.     **2001    Paint Analysis in Traffic Investigation Seminar**  
Ohio Bureau of Criminal Identification & Investigation  
City of Dayton, Ohio Police Academy
55.     **2006    Mapscenes Certified Professional Forensic Mapping w/ Total Station Course**  
Mapscenes Systems, Inc.  
West Chester, Ohio Police Department
56.     **2011    Edge FX Basic Diagramming Software with Total Station Course**  
Visual Statement, Inc.  
Butler Co. Sheriff Training Facility / Butler Technology, Liberty Township, Ohio
57.     **2004    Forensic Mapping Specialist Course (Total Station)**  
MJC & Associates, Inc.  
City of Kalamazoo, Michigan
58.     **2012    Forensic Mapping for the Collision Investigator Course**  
Ohio Peace Officer's Training Academy  
London, Ohio
59.     **2009    Forensic Mapping with Electronic Measuring Devices Course**  
Ohio Peace Officer's Training Academy  
London, Ohio
60.     **2015    Advanced Diagramming with FARO Blitz Seminar**  
Crash Tech Reconstruction Services, LLC  
Ohio Peace Officer's Training Academy, London, Ohio
61.     **2019    FARO Zone 3D Seminar**  
FARO Technologies  
Ohio Traffic Accident Reconstruction Association, Blue Ash, Ohio

- 62.    **1997    L.I.D.A.R. Based Accident / Crime Scene Reconstruction Course**  
Sinclair Community College  
City of Dayton, Ohio
  
- 63.    **2017    Post Crash Mechanical Exam Seminar**  
Ohio Traffic Accident Reconstruction Association  
West Chester, Ohio Police Department
  
- 64.    **2006    Tire Technology and Vehicle Dynamics Seminar**  
Introtech Crash Reconstruction Services  
City of Oberlin, Ohio
  
- 65.    **2015    Tire Technology, Forensics and Tire Failure Analysis Clinic**  
Bridgestone / Firestone Inc.  
Ohio State Highway Patrol Academy  
City of Columbus, Ohio
  
- 66.    **2018    Crash to Court: Courtroom Success Seminar**  
Ohio Traffic Safety Office / Ohio Traffic Accident Reconstruction Association  
West Chester, Ohio Police Department
  
- 67.    **2000    Human Factors in Collisions Seminar**  
Dr. Patrick J. Robins  
Union Township, Ohio Police Department (Butler County)
  
- 68.    **1994    Occupant Protection Usage Enforcement Training Seminar**  
Ohio Department of Public Safety  
City of Xenia, Ohio
  
- 69.    **2013    National Traffic Incident Management Responder Train-The-Trainer Seminar**  
Federal Highway Administration / Ohio Department of Transportation  
City of Dayton, Ohio Fire Academy
  
- 70.    **2013    Basic Cellular Records Analysis in Criminal Investigations Seminar**  
Ohio Peace Officer's Training Academy / City of Columbus Police  
City of Cincinnati Police Academy
  
- 71.    **2009    BMV Fraudulent Document Seminar**  
BMV / Ohio Traffic Accident Reconstruction Association  
West Chester, Ohio Police Department
  
- 72.    **1999    Emergency Vehicle Operations Course**  
Professional Driving Systems  
Sugarcreek Township, Ohio Police Department / Wright Patterson Air Force Base



73.    **2009**    **Practical Law Enforcement Driving**  
Butler County Sheriff's Office  
Butler Co. Sheriff Training Facility / Butler Technology, Liberty Township, Ohio
74.    **2009**    **Interviewing Techniques for Traffic Collision Investigation**  
Ohio Peace Officer's Training Academy  
London, Ohio
75.    **1987**    **Interview and Interrogations Workshop Course**  
Ohio Peace Officer's Training Academy  
London, Ohio
76.    **1997**    **BAC Data Master Instrument – Senior Operator Permit Course**  
Ohio Department of Health  
Sugarcreek Township, Ohio Police Department (Greene County)
77.    **1987**    **Theory, Technical Aspects and Practical Use of Traffic Radar Course**  
Ohio State Highway Patrol Academy  
City of Columbus, Ohio
78.    **1993**    **Traffic Radar Instructor Course**  
Ohio State Highway Patrol Academy  
City of Columbus, Ohio
79.    **1981**    **Doppler Traffic Radar Operation Course**  
MPH Industries, Inc. / Miami Township Police Department  
City of Milford, Ohio
80.    **1998**    **LTI 20/20 Ultralyte Laser Detection System Operator / Instructor Course**  
Laser Technology Inc.  
Sugarcreek Township, Ohio Police Department (Greene County)
81.    **1991**    **General Police Photography Course**  
Federal Bureau of Investigation Training School (FBI)  
Great Oaks Police Academy, Hamilton County, Ohio)
82.    **1982**    **Homicide Investigation Seminar**  
Hamilton County Police Association  
Great Oaks Police Academy, Hamilton County, Ohio
83.    **2003**    **Death Investigations for Police Officers Seminar**  
Greene County Coroner's Office  
Greene Memorial Hospital – Xenia, Ohio

- 84.    **1992**    **Death Investigation Course**  
          Ohio Peace Officer's Training Academy  
          London, Ohio
  
- 85.    **1989**    **Managing Criminal Investigations Course**  
          Ohio Peace Officer's Training Academy  
          London, Ohio
  
- 86.    **1988**    **Drug Interdiction Course**  
          Ohio State Highway Patrol Academy  
          City of Columbus, Ohio
  
- 87.    **1982**    **Drug Investigation Course**  
          Ohio Peace Officer's Training Academy  
          London, Ohio
  
- 88.    **2008**    **Power Point for Public Safety Course**  
          Ohio Peace Officer's Training Academy  
          City of London, Ohio
  
- 89.    **1989**    **Police Report Writing Course**  
          Ohio Peace Officer's Training Academy  
          London, Ohio
  
- 90.    **1988**    **Evidence Room Management Course**  
          Ohio Peace Officer's Training Academy  
          London, Ohio
  
- 91.    **1992**    **Instructor Training Course**  
          Ohio Peace Officer's Training Academy / Central State University  
          Wilberforce, Ohio
  
- 92.    **2007**    **Instructor Update Training Course**  
          Greene County Career Center / Criminal Justice Training Academy  
          Greene County, Ohio
  
- 93.    **1977**    **Basic Law Enforcement Training Academy (Certificate #77-823)**  
          Greene County Training School – Greene County Sheriff's Office  
          City of Xenia, Ohio

**ADJUNCT INSTRUCTOR / PRESENTATIONS**

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Ohio Peace Officer's Training Academy (Office of the Ohio Attorney General)

**Traffic Crash Investigation (Level I) Class**

- 2007, 2012, 2013, 2016, 2017, 2018, 2019

**Advanced Traffic Collision Investigation (Level II) Class**

- 2008, 2010, 2011, 2014, 2015, 2016, 2017, 2018, 2019

**Vehicle Dynamics (Level III) Class**

- 2011, 2016, 2017, 2018, 2019

**Traffic Crash Reconstruction Level (IV) Class**

- 2007, 2008, 2010, 2011, 2013, 2015, 2016, 2017, 2018, 2019

**Advanced Traffic Collision Reconstruction Class**

[Quadratic Equations/Simultaneous Equations/Rotational Mechanics/Speed from Trailer Under-Ride]

- 2013, 2014, 2015, 2016, 2017, 2019

**Crash Reconstruction Update Class**

- 2010, 2011, 2012

**Crash Reconstruction Refresher Class**

- 2018

**Investigation and Reconstruction of Pedestrian & Bicycle Involved Collisions Class**

- 2009, 2010, 2011, 2014, 2016, 2018

**Introduction to Energy & Crush Analysis Class**

- 2018

**Forensic Mapping for the Collision Investigator Class**

- 2009, 2012, 2013, 2015, 2016

**Forensic Aspects in Traffic Collision Reconstruction**

- 2015

**Commercial Motor Vehicle Inspection (Level 1)**

- 2011, 2019

**Commercial Motor Vehicle Collision Investigation (Level 1)**

- 2011, 2018, 2019

**A.C.T.A.R. Exam Preparation Class**

- 2011, 2016

**Speed Measuring Devices**

- 2014, 2015, 2017, 2018, 2019, 2020

City Of Chillicothe Police Department (Ross County, Ohio)

**Nikon Total Station w/ MFX / Edge FX Refresher Training**

- 2016

Crawford County Sheriff's Office (Ohio)

**Sokkia Total Station w/ MFX / Edge FX Training**

- 2018

**Expert Testimony**

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- Testified as an expert in numerous trials and depositions in the State of Ohio.

**Crash Reconstruction Assistance**

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I have been requested to assist agencies with fatal or serious injury traffic crashes including but not limited to:

- Ohio Patrolmen's Benevolent Association
- City of Cincinnati Prosecutor's Office/Cincinnati Police (Ohio)
- Louisville Metro Police – Traffic Unit (Kentucky)
- City of Dayton Police – Traffic Unit (Ohio)
- City of Chillicothe Police (Ohio)
- City of Beavercreek Police (Ohio)
- City of Xenia Police (Ohio)
- City of Washington C.H. Police (Ohio)
- City of Oregon Police (Ohio)
- City of Lorain Police (Ohio)
- City of Monroe Police (Ohio)
- City of Greenville Police (Ohio)
- Preble County Sheriff's Office (Ohio)
- Henry County Sheriff's Office (Ohio)
- Fayette County Sheriff's Office (Ohio)
- Butler County Sheriff's Office (Ohio)
- Wood County Sheriff's Office (Ohio)
- Pickaway County Sheriff's Office (Ohio)
- Darke County Sheriff's Office (Ohio)
- Licking County Sheriff's Office (Ohio)
- Union County Sheriff's Office (Indiana)
- Fairfield Township Police (Ohio)
- West Chester Township Police (Ohio)
- Sugarcreek Township Police (Ohio)
- Oxford Township Police (Ohio)
- Sylvania Township Police (Ohio)

- Law Science Technologies, Inc.
- Crash Tech Reconstruction Services, LLC

## Field Testing

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- Cars / SUV Skid Testing (Vericom Accelerometer) ABS / Non-ABS (Asphalt / Grass / Gravel)
- Tractor- Double Trailers Skid Testing Tractor Bobtail Skid Testing (Asphalt) (Vericom Accelerometer)
- Tractor- Double Trailers Acceleration Testing (Asphalt)
- Tractor- Tanker Trailer Skid Testing (Vericom Accelerometer) (Asphalt) ABS
- Tractor-Trailer Engine Only Deceleration Testing
- Tractor Trailer v. Car(s) Crash Testing
- Semi-Trailer / Car Side Underride Crash Testing
- Semi-Trailer / SUV Side Underride Crash Testing
- Cars v. Cars Crash Testing
- Utility Pole Impact by a Car Testing (Cincinnati, Ohio)
- School Bus v. Pickup Truck Crash Testing
- School Bus Deceleration Testing (Vericom Accelerometer)
- School Bus Acceleration Testing (Vericom Accelerometer)
- Fire Engine Truck / Fire Ladder Trucks / Fire Medic Truck Acceleration Testing
- Fire Engine Truck / Fire Ladder Trucks / Fire Medic Truck Deceleration Testing
- Pedestrian v. Car / SUV / Pickup Truck Crash Testing (Vericom Accelerometer)
- Bicycle / Rider Vehicle Collision Testing (Vericom Accelerometer)
- Pedestrian with Bike Crash Testing (Vericom Accelerometer)
- Pedestrian Drop Testing From Truck (Asphalt / Grass / Gravel)
- Vehicles Left Turn Acceleration Testing
- Vehicles Right Turn Acceleration Testing
- Vehicles Straight Acceleration Testing (Vericom Accelerometer)
- Car / SUV/Pickup Truck Deceleration Engine Off - In Gear (Drive)
- Car / SUV/Pickup Truck Deceleration Engine Off - In Gear (Reverse)
- Vehicles Head On & Side Impact w/ Pole Testing
- Critical Speed Yaw Testing
- Pedestrian Walking / Running Speeds Testing
- Motorcycles v. Cars Crash Testing
- Motorcycle Drop / Coefficient of Friction Testing
- Drove a 2006 Volvo Tractor w/ Double Trailers – Driving / Test Track
- Bicycle Braking (Deceleration) Testing
- Bicycle Acceleration Testing
- Drag Factor Measurement Comparison Testing (G-Analyst, VC4000, VC3000, VC2000, Drag Sled)

## Affiliations

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- 1998 – Present: The Accreditation Commission for Traffic Accident Reconstruction (ACTAR No. 804)
- 2024 – Present: National Association of Professional Accident Reconstruction Specialists, Inc. (NAPARS)
- 2016 – 2024: Ohio Traffic Accident Reconstruction Association, (O.T.A.R.A.)
- 2008 – 2015: Butler County Serious Traffic Accident Reconstruction Team (S.T.A.R.T.)
- 1995 – 2001: National Association of Professional Accident Reconstruction Specialists, Inc. (NAPARS)