



**TOM MORRIS**

*Curriculum Vitae*



Vehicular Accident Reconstructionist  
ACTAR #1308

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## **Professional Accreditation**

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Fully Accredited Traffic Accident Reconstructionist #1308 (Sept. 2002 – Sept. 2022)  
*Accreditation Commission for Traffic Accident Reconstruction (ACTAR)*

Member National Association of Professional Accident Reconstruction Specialists  
(NAPARS)

Member Illinois Association of Technical Accident Investigators (IATAI)

Member National Assoc of Traffic Accident Reconstructionists and Investigators (NATARI)

## **Instructional Seminars Developed and Presented**

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Missouri State Highway Patrol Academy – Major Crash Investigation Team (12 hrs)  
*“Validating analysis and interpretation of CDR pre-crash data through instrumented field testing”* (2017)

Missouri State Highway Patrol Academy – Major Crash Investigation Team (8 hrs)  
*“Creating 3D models using CAD for the Forensic Analysis of Collisions”* (2016)

St. Louis County Police Academy – MoDOT Traffic Safety Training Grant (40 hrs)  
*“Principles of Forensic Mapping”* (2006)  
*“Vehicle Behavior in Cornering”* (2006)  
*“Drag Factor in Accident Reconstruction”* (2006)  
*“Report Preparation”* (2006)  
*“Illustrative Photography”* (2006)  
*“Drag Tire Correlation to Accelerometer Based Skid Testing”* (2006)

Law Enforcement Traffic Safety Advisory Council (LETSAC) Annual Meeting  
*“Accident Reconstruction Advancement”* (July 2006)

St. Louis Metropolitan Police Department – Crime Lab/ETU  
*“Principles of Forensic Mapping using Total Station Technology”* (2003)  
*“Use of CAD software in the preparation of Forensic Maps”* (2003)

St. Louis Metropolitan Police Department – Accident Reconstruction Team  
*“Principles of Forensic Mapping using Total Station Technology”* (2000,2008,2009,2013,2015)  
*“Use of CAD software in the preparation of Forensic Maps”* (2001, 2008)

MAACA (Midwest Anti-Auto Crime Association) Annual Meeting  
*“Dealing with Uncertainty in Auto Collisions”*  
*“Using Data from Airbag Control Modules for Collision Analysis”* (2014)

Circuit Attorney, St. Louis City (Continuing Legal Education Presentation)  
*“Forensic Mapping Strategies”*  
*“Dealing with Uncertainty in Auto Collisions”*  
*“Using Data from Airbag Control Modules for Collision Analysis”* (2014)



Lorman Educational Services (Instructor)

*"Basics of Traffic Accident Reconstruction" (2005)*

UMSL – (Guest Lecturer – Crime Scene Investigation)

*"Forensic Mapping Applications to Criminal Investigations and Reconstruction" (2004,2005,2006,2007, 2008, 2009, 2010, 2011, 2012, 2013,2014,2016)*

Rice University – (Guest Lecturer Physics 125)

*"The Application of Physics to Vehicular Accident Reconstruction" (2002)*

Valparaiso University Dept. of Physics and Astronomy

*"The Application of Physics to Vehicular Accident Reconstruction" (2000, 2004, 2009)*

Safeco Indianapolis Region Claims

*"Introduction to Technical Accident Investigation and Reconstruction" (2000)*

Safeco Chicago Region Claims

*"Introduction to Technical Accident Investigation and Reconstruction" (1999)*

## Professional Education

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Northwestern University Center for Public Safety (1998)

Evanston, IL

-Accident Investigation

-Accident Reconstruction (80 Hours)

-Advanced Accident Reconstruction (40 Hours)

World Reconstruction Exposition 2000 (36 hours)

College Station, TX

-Advanced Topics in Accident Reconstruction

-Crash Testing

IAARS Annual Conference (28 hours) (2003)

Olathe, KS

-Advanced Topics in Accident Reconstruction

-Crash Testing/Heavy Vehicle Brake Testing

IATAI Annual Conference (21 Hours) (2004)

Peoria, IL

-Rollover Crash Testing

IATAI Annual Conference (21 Hours) (2005)

Springfield, IL

-Pedestrian Crash Testing

IATAI Annual Conference (21 Hours) (2006)

Bloomington, IL

-SDM Crash Testing

IATAI Annual Conference (19 Hours) (2007)

Bloomington, IL

-SDM Crash Testing



- IATAI Annual Conference (16 Hours) (2008)  
Bloomington, IL
  - Energy Methods/Human Factors
  
- IATAI Annual Conference (22 Hours) (2009)  
Bloomington, IL
  - Scene Processing/Night Photography/Yaw Validation
  
- IATAI Annual Conference (18 Hours) (2010)  
Bloomington, IL
  - Vehicle Rollover Testing
  
- IATAI Annual Conference (36 Hours) (2011)  
Bloomington, IL
  - Advanced Vehicle Technology
  - Size mismatch head-on collisions
  
- IATAI Annual Conference (21 Hours) (2012)  
East Peoria, IL
  - Motorcycle Collisions
  - Energy balance methods for crush stiffness
  
- IATAI Annual Conference (21 Hours) (2013)  
East Peoria, IL
  - Vehicle/Truck underride collisions
  - Forensic Tire Examination
  
- IATAI Annual Conference (21 Hours) (2014)  
East Peoria, IL
  - Collisions with secondary impacts
  - Airbag Control Module updates
  
- IATAI Annual Conference (21 Hours) (2015)  
East Peoria, IL
  - Oblique impacts
  - Using ACM data to reconstruct collisions
  
- Leica Geosystems P40 Scanstation (32 Hours) (2016)  
St. Louis, MO
  - Use of the P40 Scanstation in the documentation of crime scenes
  
- IATAI Annual Conference (21 Hours) (2016)  
East Peoria, IL
  - ABS braking
  - Tire failure analysis
  
- IATAI Annual Conference (21 Hours) (2017)  
Springfield, IL
  - Occupant Kinematics
  - Aerial photogrammetry
  
- IATAI Annual Conference (21 Hours) (2018)  
Springfield, IL
  - Trailer Stability
  - Autonomous vehicles



IATAI Annual Conference (21 Hours) (2019)

Springfield, IL

-Motorcycle Crash Testing

-Autonomous vehicles

Nikon AIMS (Accident Investigation Measurement System) (1999)

St. Louis, MO

-Forensic Mapping (12 hours)

## Professional Experience

- On-Call Contract Consultant, St. Louis Metropolitan Police Dept Accident Reconstruction Team providing technical assistance in forensic mapping and analytic techniques for collected evidence on criminal cases.
- Provides analysis and creates 3D models in support of the Force Investigation Unit for police involved shootings.
- Provides training for the SLMPD Accident Reconstruction Team in Reconstruction Analysis and Forensic Mapping
- Reviewed criminal case materials at the request of the St. Louis City Circuit Attorney's Office.
- Conducted supplemental investigation and analysis at the request of the St. Louis City Circuit Attorney's Office resulting in a successful criminal prosecution.
- Endorsed as an expert witness and provided testimony for the defense in a civil suit against the St. Louis Metropolitan Police Dept.

### Safeco Insurance

- Conducted technical investigations and reconstructed accidents in support of adjuster liability investigations.
- Successfully presented collected evidence to Arbitration panels.
- Supported legal counsel in trial preparation resulting in St. Louis City defense verdict.
- Reviewed expert reports for legal counsel to identify potential weaknesses.
- Worked in conjunction with independent experts in support of their field investigations.
- Created forensic maps and computer simulations of accidents.
- Vehicle damage photography and analysis
- Accident scene photography
- Witness Statements

## Equipment

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- Nikon NPL-332 Prismless Total Station Surveying Equipment
- Nikon DTM-310 Total Station Surveying Equipment
- IMS360 computer aided design software with Capture Animation Module
- Crash Zone Accident Scene diagramming and animation software
- CalcZone
- Mathcad Prime 4.0
- Engineering Dynamics HVE-2D+ Collision Simulation Software
- Pentax K10 10mp digital camera
- Photomodeler Scanner Photogrammetry Software
- Strobes and Retro-reflective safety vests to conduct safe surveys of the accident scene.



## Education

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Washington University (1986-1990)  
St. Louis, MO

B.A., Liberal Arts, Economics

## Professional Experience

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St. Louis Metropolitan Police Department

- Public Safety Specialist – Traffic Safety (2017-present)
  - Provide technical assistance in the investigation and reconstruction of fatal collisions
  - Develop 3D scanning protocols and workflows for the documentation of crash and crime scenes using the Leica P40

Liberty Mutual Agency Markets (Safeco Insurance)

- Arbitration Specialist – Recovery Management (2003-2011)
  - Case preparation and presentation to the inter-company arbitration panel
- Business Analyst – Commercial Claims/Salvage (2002-2003)
  - Database design
  - Production support
  - Staffing Analysis
- Operations Technical Support (1998-2002)
  - Database design and production support
  - Hardware/Software/Networking troubleshooting
- Casualty Adjuster (1997 -1998)
  - Investigated losses and negotiated settlements for auto collision personal injury claims.

Boatmen's Bank

- Electronic Data Interchange Analyst (1994 – 1996)
  - Worked as liaison to define customer file requirements for programming resources

United Van Lines

- Household Goods Cargo Claims Adjuster (1991 – 1994)
  - Investigated and negotiated settlement for Household Goods damage claims.