

Daniel
Holmes
Reconstruction LLC



CRASH RECONSTRUCTIONIST-FORENSIC MAPPIST
CDR ANALYST-TECHNICIAN
A.C.T.A.R. # 2455
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Crash Reconstruction Investigations

I have investigated and/or reconstructed over 170 fatal and serious injury crashes since becoming a Minnesota State Patrol Accident Reconstruction Specialist (MSPARS) and Forensic Mappist. I have also Peer Reviewed over 100 other Minnesota State Patrol Accident Reconstruction Specialists' reports.

Since retiring from the Minnesota State Patrol, I have reconstructed several crashes, both criminal and civil.

Education

2009	Institute of Police Technology and Management (IPTM), University of North Florida Accident Reconstruction Specialist
1988	Minnesota State Patrol Training Academy, Arden Hills, MN State Patrol Recruit Academy
1986	Minnesota State University, Mankato, MN Bachelor Degree of Science, Law Enforcement
1981	Albert Lea Senior High School, Albert Lea, MN Graduate

Work Experience

Blue Earth County Sheriff's Office

2018-Present	Bailiff
January 2016	Minnesota South Central Investigators Coalition- MSCIC Meritorious Service Award

Daniel Holmes Reconstruction-LLC

2015-Present	Lead Investigator of Daniel Holmes Reconstruction-LLC
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State of Minnesota, Department of Public Safety

Minnesota State Patrol Division

June 2015	Retired from the State Patrol
April 2015	Minnesota State Patrol Award of Excellence in Crash Reconstruction
2011-2015	Returned to the Mankato District
2010-2011	Major Crash Reconstruction Team member & Academy Instructor, Golden Valley, MN
2009-2015	Crash Reconstruction Specialist/ Forensic Mappist
1988-2015	State Patrol Trooper

Professional Affiliations

ACTAR	National Accreditation Commission for Traffic Accident Reconstruction Full Accreditation - Traffic Accident Reconstructionist - #2455
MATAI	Midwest Association of Technical Accident Investigation
NAPARS	National Association of Professional Accident Reconstruction Specialist
POST	Peace Officer Standards and Training - MN Licensed Peace Officer

Technical Education/Training

2020	Institute of Police Technology and Management (IPTM), University of North Florida <i>Commercial Vehicle Crash Investigation-Level 1, February 17 through February 21.</i> NAPARS Virtual Annual Joint Conference, October 6 th through October 13 th , 2020. Investigating Rollover Crashes (John Daily), GoPro GPS Analysis (Greg Russell), PRT in Different Crash Types (Dt. Jeff Muttart), Obtaining Chip-level Data from Modules (Matt DeSogra), Considering Tires in your Investigation (TJ Tennant), Analysis of ECM Data in New Freightliners (Wes Grimes, Greg Wilcoxson, and Dave Plant).
2018	Advanced Event Recorder Use in Traffic Crash Reconstruction, Fort McCoy, WI January 16-18, 2018
2017	Airman Certificate Small Unmanned Aircraft System Midwest Association of Technical Accident Investigation (MATAI) Annual Conference, Wisconsin Dells, WI CMV & Motorcycle Tires (TJ Tennant), Forensic Mapping Utilizing UAVs (Greg Gravesen), Heavy Vehicle Electronic Logging Devices (Robert Martin), Heavy Vehicle Data from ECM and ABS Modules (Scott Skinner), Axle Weight Reconstruction (Scott Skinner), Dynamic Rollover Threshold Speed Calculations (Scott Skinner), CMV Post-Crash Inspections (Scott Skinner), Effect of Wheel Slip on Reported Vehicle Speed (David Hallman), Vehicle Mechanical Inspections -Separating Pre-Crash/Crash Damage (David Hallman). June 5 through June 7
2015	January-District 2100, 2200, and 2300 Recon training in Mankato Field Calibration of Total Stations, Equipment Inspections April-District 2100, 2200, and 2300 Recon training in Mankato Mapping vehicle damage to determine pre and post impact angles - case presentations Midwest Association of Technical Accident Investigation (MATAI) Fall Conference, Cedar Rapids, IA <i>Rich Consulting LLC. Practical Statistics for Traffic Crash Reconstruction, October 27 through October 29</i>
2014	Institute of Police Technology and Management (IPTM), University of North Florida <i>Event Data Recorder Use in Traffic Crash Reconstruction, March 24 through March 28</i> Institute of Police Technology and Management (IPTM), University of North Florida <i>Online Bosch CDR Technician, May 19 through May 23</i> Midwest Association of Technical Accident Investigation (MATAI) Annual Conference, St. Paul, MN <i>Conservation of Linear Momentum, CDR, Crash Testing, Simulation, Animation</i> Minnesota State Patrol Reconstruction In-Service Training, Golden Valley, MN <i>Stress Management, Case Management, Pedestrian Crash Testing, Crash Zone</i>

- 2013** January-District 2100, 2200, and 2300 Recon training in Owatonna, MN
Momentum -case presentations
 Institute of Police Technology and Management (IPTM), University of North Florida
Occupant Kinematics, June 10 through June 14
 Midwest Association of Technical Accident Investigators (MATAI)
Applied Physics for Collision Reconstruction, November 11 through November 15
- 2012** Minnesota State Patrol Reconstruction In-Service Training, Golden Valley, MN
Momentum
 June-District 2100, 2200, and 2300 Recon training in Albert Lea, MN
Advanced Crash Zone drawing - case presentations
 September-District 2100, 2200, and 2300 Recon training in Owatonna, MN
Critical speed yaw - VC2000 - skid testing
- 2011** Acceleration and Vericom Familiarization Course, St. Paul, MN
 Midwest Association of Technical Accident Investigators (MATAI)
 Annual Conference, Cedar Rapids, IA
Restraint Systems, Momentum, and Energy
 Minnesota State Patrol Reconstruction In-Service Training, Golden Valley, MN
Crash Zone 9.1
- 2010** February-meeting with the Reconstructionist from District 2100 to implement a
 training program for District 2100 and District 2200 Recons.
 April-VC2000 training-case presentations
 July-Lamp training-case presentations
 October- Cell phone search warrants- case presentations
 Minnesota State Patrol Reconstruction In-Service Training
- 2009** Institute of Police Technology and Management (IPTM), University of North Florida
Traffic Crash Reconstruction, August 17-28, 2009
 Forensic Mapping-Total Station Technology
 Basic Crash Zone and Crime Zone CAD Training
 Minnesota State Patrol Reconstruction In-Service Training
- 2007 to 2009** I worked extensively with Sgt. Jay Engeswick, District 2200 Investigator/MSPARS.
 I assisted him in the Forensic Mapping of fatal and/or serious injury crashes and took
 that information and did my own reconstruction work; comparing it to his
 results. Sgt. Engeswick gave me all his resource materials on accident reconstruction
 investigation and I had the opportunity to read this material and discuss the material with
 him at length prior to his retirement May 2009.

Other Investigations

I assisted the BCA in the Forensic Mapping of a scene in a homicide investigation in City of Mankato, MN. I also assisted in the Forensic Mapping for Blue Earth County in an officer involved shooting. In addition, I did a Forensic Mapping for Le Sueur County in an assault case.

Expert Court Testimony

- 2013** State of Minnesota v. John Andrew Bastian
 Blue Earth County Case No. 07-CR-13-1005
 September 6, 2013

- 2014** State of Minnesota v. Gregory Wendinger
Grand Jury Waseca County Case No. 81-CR-14-835
November 2014
- 2015** Karla J. Weber v. Andrew C. Damhof
Sibley County Case No. 72-CV-15-42
Deposition April 17, 2015
- State of Minnesota v. Michaela Rose Zachman
City of St. Peter Case No. 52-CR-15-233
November 18, 2015
- 2016** State of Minnesota v. Blake Ogle
McLeod County Case No. 43-CR-15-1330
March 17, 2016
- 2017** Heirs of Brent Lehnen v. Derek Lawrence Stavish
Nicollet County Court File No. 52-CV-14-594
Deposition February 3, 2017
- Conway v Flintrop
Waseca County Court File No. 81-CV-16-806
Jury Trial December 14, 2017
- 2018** Zaborowski v Edman & Edman
Martin County Court File No. 46-CV-17-453
Deposition February 5, 2018
- 2019** Zaborowski v Edman & Edman
Martin County Court File No. 46-CV-17-453
Jury Trial February 5, 2019
- United Farmers' Cooperative v Frauendienst Farms LLC,
Mitchel R. Frauendienst, Loren D. Evers
Sibley County Court File No. 72-CV-18-62
Jury Trial March 13, 2019
- 2022** State of Minnesota v. Rodney Ernest
Cook County Case No. 16-CR-20-210
April 11, 2022