

Daniel
Holmes
Reconstruction LLC



CRASH RECONSTRUCTIONIST-FORENSIC MAPPER
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 Mapper. 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 Mapper
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

2025	NAPARS Online Training Occupant Traumatic Brain Injury from Minimal Crash Damage (January 10, 2025) Integration of Acceleration and Excel (February 7, 2025)
2024	Advanced Collision Reconstruction with CDR Applications March 18 th – 22 nd , 2024 NAPARS Online Training ATV Crash Investigation and Reconstruction (April 26, 2024)
2023	NAPARS Online Training The EDR and the Trailer Hitch (January 09, 2023) EDR update (February 24, 2023) Aerial photogrammetry (March 17, 2023) Human Factors (April 04, 2023) Ignition Cycle (May 05, 2023) Accident Analysis & Reconstruction, Inc – <i>Crush Energy Analysis, June 25th – 30th, 2023</i>
2022	NAPARS Online Training Conservation of Linear Momentum (October 28, 2022), Bendix Pro (November 11, 2022) Spin Analysis (November 18, 2022) Vehicle Dynamics (November 28, 2022) Equations We Love and Sometimes Hate (December 10, 2022) Midwest Association of Technical Accident Investigation (MATAI) Annual Conference, Altoona, IA Crash Testing, Commercial Motor Vehicle related, Iowa DOT enforcement- - -Log Book & Equipment Checks, Attorney Bobby Rehkemper - - - Criminal & Civil Discussion on CMV Collisions, Cheryl Roe (University of Iowa) - - - Update on Autonomous Vehicles, William Messerschmidt - - - Human Factors, Kent Boots - - - Automotive Test Equipment & Diagnostic Trouble Codes, Pre-Crash Sources and Troubleshooting, David Hallman - - - Review of Crash Testing Data. September 12-14.
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
Rich Consulting LLC. Practical Statistics for Traffic Crash Reconstruction, October 27 through October 29
- 2014** Institute of Police Technology and Management (IPTM), University of North Florida
Event Data Recorder Use in Traffic Crash Reconstruction, March 24 through March 28
Institute of Police Technology and Management (IPTM), University of North Florida
Online Bosch CDR Technician, May 19 through May 23
Midwest Association of Technical Accident Investigation (MATAI)
Annual Conference, St. Paul, MN
Conservation of Linear Momentum, CDR, Crash Testing, Simulation, Animation
Minnesota State Patrol Reconstruction In-Service Training, Golden Valley, MN
Stress Management, Case Management, Pedestrian Crash Testing, Crash Zone
- 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
Jury Trial April 11, 2022
- 2023** Majka v Behr, LeBrun & K&T Trucking LLC
Martin County Court File No. 46-CV-22-571
Jury Trial December 14, 2023
- 2024** State of Minnesota v Jesse James Kowalczak
St. Louis County file No. 69DU-CR-22-3396
Contested Omnibus Hearing May 22, 2024
- 2025** State of Minnesota v Jeffery Wilaby
Blue Earth County Court File No. 07-VB-24-4173
Court Trial May 6, 2025
- State of Minnesota v Matthew Jacob Pohlman
Todd County Court File No. 77-CR-23-719
Jury trial August 27, 2025