



MICHAEL A. KERLEY

Sr. Principal Accident Reconstructionist

Accident Reconstruction | Commercial Vehicle Safety | Drug Recognition Expert / DUI Instructor
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PROFESSIONAL PROFILE

Senior Principal Accident Reconstructionist, commercial vehicle safety consultant, and Drug Recognition Expert/DUI instructor with more than 20 years of experience in collision reconstruction, impaired-driving investigations, traffic enforcement, and law-enforcement instruction. Experience includes private forensic consulting, municipal and state law enforcement, and U.S. Army Military Police service, with assignments focused on serious-injury and fatality crashes, commercial motor vehicle safety, motorcycle collisions, pedestrian and bicycle crashes, and digital vehicle data analysis.

Provides technical analysis in matters involving speed and time-distance calculations, Event Data Recorder (EDR) and heavy-vehicle data, human factors considerations, energy and damage assessment, lamp examinations, occupant kinematics, video speed analysis, vehicle system forensics, and FMCSA/Title 49 commercial vehicle regulatory compliance. Accredited through ACTAR and trained in CDR, HVEDR, Berla vehicle forensics, police RADAR/LIDAR instruction, SFST/DRE instruction, and police motorcycle instruction.

CORE EXPERTISE

- **Accident Reconstruction:** speed, time-distance, EDR/HVEDR data, energy/damage analysis, lamp examinations, occupant kinematics, and video speed analysis
- **Impaired-Driving Investigations:** DRE, DUI enforcement, SFST, ARIDE, narcotics field testing, and officer instruction
- **Digital & Scene Technology:** CDR, Berla Vehicle System Forensics, Toyota GTS+, FARO, LTI mapping, UAV applications, Recon 3D, and Excel-based reconstruction tools
- **Commercial Vehicle Safety:** FMCSA/Title 49 compliance, CMV crash reconstruction, DOT/CVSA inspection experience, and heavy vehicle data systems
- **Motorcycle & Vulnerable Roadway Users:** motorcycle, pedestrian, and bicycle collision analysis; police and civilian motorcycle instruction
- **Instruction & Program Leadership:** IPTM instruction, DRE/SFST/RADAR/LIDAR training, grant-supported traffic safety initiatives, and collision-reduction programs

ACCREDITATION, CERTIFICATIONS, AND PROFESSIONAL AFFILIATIONS

ACTAR Accreditation	Accreditation Commission for Traffic Accident Reconstruction (ACTAR) Accreditation No. 1718
Drug Recognition Expert & DUI Instructor	International Association of Chiefs of Police (IACP) No. 21473
Vehicle System Forensics	Certified Vehicle System Forensics Operator, Technician, and Examiner through Berla vehicle forensics training
Commercial Vehicle Safety	Training and experience in Code of Federal Regulations Title 49; conducted hundreds of commercial motor vehicle inspections throughout law-enforcement career
Professional Affiliations	National Association of Professional Accident Reconstruction Specialists (NAPARS); Midwest Association of Technical Accident Investigators (MATAI); SAE International; Illinois Association of Traffic Accident Investigations (IATAI); Texas Association of Traffic Accident Reconstruction Specialists (TAARS)
Federal Aviation Administration	Remote Drone Pilot No. 5284736

PROFESSIONAL EXPERIENCE

KERLEY RECONSTRUCTION LLC

2024-Present

Owner / Sr. Principal Accident Reconstructionist / Commercial Vehicle Safety Consultant / Drug Recognition Expert

- Founded and operate a forensic consulting practice providing accident reconstruction, commercial vehicle safety analysis, and impaired-driving expertise for legal matters.

- Conduct technical analyses involving speed calculations, time-distance reconstruction, human factors considerations, event data recorder and heavy-vehicle data, energy and damage profiles, lamp examinations, occupant kinematics, vehicle system forensics, and video-based speed analysis.
- Evaluate fatal and serious-injury collisions involving passenger vehicles, commercial vehicles, pedestrians, motorcycles, bicycles, and other roadway users.
- Communicate complex reconstruction findings in a clear, methodical, and defensible manner for attorneys, investigators, and other case stakeholders.

STIDHAM RECONSTRUCTION & INVESTIGATIONS

2023-2026

Accident Reconstructionist / Drug Recognition Expert / Commercial Vehicle Safety

- Perform forensic reconstruction assignments for a private reconstruction and investigation firm, with emphasis on serious-injury and fatality matters.
- Analyze passenger vehicle, commercial vehicle, pedestrian, motorcycle, and bicycle collisions using accepted reconstruction methodologies and specialized technical data.
- Apply speed, time-distance, human factors, EDR/black box, energy/damage, lamp, occupant kinematics, and video speed analyses to support technical opinions.
- Organize technical evidence and present reconstruction findings in a clear, structured manner for legal and investigative use.

UNIVERSITY OF NORTH FLORIDA - INSTITUTE OF POLICE TECHNOLOGY AND MANAGEMENT (IPTM)

2022-Present

Adjunct Instructor – Advanced Accident Reconstruction Courses

- Serve as adjunct instructor for IPTM accident reconstruction curriculum.
- Instruct Traffic Crash Reconstruction and Traffic Crash Reconstruction - Level II, emphasizing technical reconstruction methods and investigative interpretation.
- Provide practitioner-focused instruction to law enforcement officers, crash investigators, and reconstruction professionals.

FORENSIC TRAINING GROUP

2024-2025

Adjunct Instructor – Motorcycle Accident Reconstruction Courses

- Served as adjunct instructor for motorcycle accident reconstruction coursework.
- Taught motorcycle crash investigation and reconstruction concepts to law enforcement and forensic professionals.
- Focused instruction on evidence recognition, motorcycle dynamics, and the disciplined application of reconstruction methodology.

JACKSON RECONSTRUCTION

2021-2024

Accident Reconstructionist / Commercial Vehicle Safety Consultant / Drug Recognition Expert

- Performed collision reconstruction case work for legal and investigative matters involving fatality and serious-injury collisions.
- Analyzed passenger vehicle, commercial vehicle, pedestrian, motorcycle, and bicycle collisions using speed calculations, time-distance analysis, human factors elements, EDR/black box data, energy/damage profiles, lamp examinations, occupant kinematics, and video speed analysis.
- Evaluated physical and technical evidence to develop reconstruction opinions consistent with accepted accident reconstruction methodologies.

GARDEN CITY POLICE DEPARTMENT

2011-2021

Officer / Master Patrol Officer / Corporal / Sergeant; DRE Instructor; Police Motorcycle Instructor; Accident Reconstructionist-Instructor

- Promoted through Officer, Master Patrol Officer, Corporal, and Sergeant; oversaw the Motorcycle/Traffic Unit and supported traffic safety strategy aimed at collision reduction.
- Served as the department's accident reconstructionist, Commercial Vehicle Safety/DOT inspector, DRE instructor, police motorcycle instructor, RADAR/LIDAR instructor, and SFST instructor.
- Investigated serious criminal and traffic matters, including homicide, vehicular assault, domestic violence calls, impaired-driving incidents, and accident investigations.
- Obtained Kansas Department of Transportation grant support and equipment for technical investigations, including a total station, Event Data Recorder equipment, and portable breath test units.
- Designed and implemented a civilian motorcycle safety course and instructed police and civilian motorcycle courses to support community safety and reduce motorcycle crashes.
- Instructed law enforcement officers from Kansas and other states, certifying officers as Drug Recognition Experts through the State of Kansas and the International Association of Chiefs of Police framework.

- Recognized as Officer of the Quarter in 2011 and 2017, Top Drug Recognition Expert in Kansas in 2015 and 2016, and Kansas MADD Law Enforcement Hero in 2017.

NATIONAL AMERICAN UNIVERSITY

2017-2021

University Professor – Business Management and Criminal Justice

- Taught undergraduate business management and criminal justice courses in on-ground and online-supported learning environments.
- Developed exams, research assignments, course materials, and evaluation methods aligned with course objectives.
- Mentored students in academic development, professional readiness, and successful course completion.

COLORADO STATE PATROL

2008-2011

State Trooper – Clear Creek and Summit Counties; Accident Reconstructionist

- Served as a State Trooper with duties spanning traffic enforcement, criminal calls, DUI enforcement, collision investigation, and public safety response.
- Performed accident reconstruction duties and served as a Commercial Vehicle Safety/DOT inspector with authority to inspect and enforce FMCSA rules and regulations.
- Instructed troopers in RADAR/LIDAR operation and accident investigation.
- Recognized multiple times with Awards of Excellence and High Achievement Awards.

PHOENIX POLICE DEPARTMENT

2007-2008

Police Officer / Accident Reconstructionist

- Served as police officer and accident reconstructionist with responsibilities across traffic collision investigations and general law enforcement calls.
- Applied reconstruction training to serious traffic-related investigations and supported departmental traffic safety enforcement.
- Served as RADAR/LIDAR instructor.

DENVER POLICE DEPARTMENT

2004-2007

Police Officer / Accident Reconstructionist / DUI Enforcement Officer

- Served as police officer assigned to the Accident/DUI function within the Traffic Operations Bureau.
- Investigated DUI and collision matters and served as accident reconstructionist and RADAR/LIDAR instructor.
- Revised the department's RADAR and LIDAR program, including testing materials, manuals, and a certification tracking database for officer recertification.

UNITED STATES ARMY - MILITARY POLICE CORPS

1997-2004

Sergeant / Military Police Officer / NCOIC Traffic Operations / Accident Reconstructionist

- Served as a Military Police Officer and Sergeant with traffic investigations assignments at Fort Richardson, Fort Lewis, Camp Hialeah in South Korea, and Fort Carson.
- Served as accident reconstructionist, RADAR/LIDAR instructor, and Non-Commissioned Officer in Charge of Traffic Operations/Traffic Investigations for assigned areas.
- Investigated collisions and law enforcement incidents involving soldiers, government vehicles, government equipment, and local agencies; coordinated with civilian law enforcement on joint fatality investigations involving soldiers on and off installation.
- Managed traffic safety initiatives, citation tracking, and collision-reduction goals, including coordination with the Central Violations Bureau for citation processing and court dates.
- Operated military commercial-style vehicles and trailers, including three-quarter-ton and one-ton trucks, HMMWVs, and pintle, bumper, and gooseneck trailer configurations.

EDUCATION

Garden City Community College Garden City, KS	Associate of Applied Science (AAS), Agricultural Business; graduated with Academic Honors
Central Christian College McPherson, KS	Bachelor of Science, Criminal Justice
National American University Rapid City, SD	Master of Management (MM), Criminal Justice; Master of Business Administration (MBA); President's List, Summer 2015; Dean's List, Spring 2015
Walden University Minneapolis, MN	Coursework completed toward Ph.D. in Criminal Justice

LAW ENFORCEMENT TRAINING ACADEMIES

United States Army Military Police Training	May 1997 - September 1997
Denver Police Department Academy	October 2004 - March 2005
Colorado State Patrol Academy	July 2008 - December 2008
Kansas Law Enforcement Training Center	February 2012

RELEVANT TRAINING, CERTIFICATIONS, AND CONTINUING EDUCATION

Course / Certification	Date
Master Instructor for Narcotics Field Testing	July 12, 1997
Response to Motor Vehicle Accidents	October 23, 1997
DWI Detection and Standardized Field Sobriety Tests (SFST)	November 26, 1997
Police Traffic Radar Operator	February 26, 1998
Basic Collision Investigations	December 11, 2001
U.S. Army Primary Leadership Development Course (PLDC)	February 1, 2002
Standardized Field Sobriety Tests (SFST)	March 27, 2002
Aggressive Driving Instructor	October 20, 2002
Drug Abuse Resistance Education (DARE)	April 4, 2003
Traffic Radar Operator	January 20, 2004
Traffic Lidar Operator	January 20, 2004
Traffic Radar Instructor	April 15, 2004
Traffic Lidar Instructor	April 15, 2004
Motorcycle Accident Reconstruction	May 26, 2004
Advanced Technical Accident Investigation - Level II	August 20, 2004
Traffic Accident Reconstruction - Level III	September 3, 2004
Standardized Field Sobriety Tests (SFST)	March 23, 2005
Advanced Auto/Pedestrian Crash Investigations	September 22, 2005
Crisis Intervention Training	October 28, 2005
Standardized Field Sobriety Tests (SFST)	December 4, 2008
Commercial Vehicle Safety - Level III	December 12, 2008
Police Radar Operator	February 6, 2009
Advanced Technical Accident Investigation - Level II	August 21, 2009
Leadership Through Communication	November 11, 2009
3-Day Pursuit School	June 30, 2010
Traffic Accident Reconstruction - Level III	November 5, 2010
Reid Interview and Interrogation	December 2, 2010
Advanced Roadside Impaired Driving Enforcement (ARIDE)	April 5, 2011
Commercial Vehicle Safety - Level I	April 20, 2012
Basic Police Motorcycle School	May 18, 2012
Commercial Vehicle Interdiction	February 14, 2013
IACP Preliminary Drug Recognition Expert (DRE) Course	April 3, 2013

Course / Certification	Date
Drug Recognition Expert (DRE)	May 2, 2013
SFST Instructor	August 6, 2014
Police Motorcycle Instructor	April 24, 2015
Finding the Leader in You	January 22, 2016
FARO Crash Scene Reconstruction	June 30, 2016
LTI Mapping Course	July 12, 2016
Drug Recognition Expert (DRE) Instructor	June 1, 2017
Commercial Vehicle Crash Reconstruction	July 14, 2017
Event Data Recorder (EDR) Use in Crash Reconstruction - Level I	August 25, 2017
Crash Data Retrieval (CDR) Technician	August 26, 2017
Police Field Training Officer (FTO)	May 4, 2018
Introduction to Supervision	September 12, 2018
K9 Unit Management and Supervision	February 14, 2020
Event Data Recorder (EDR) Use in Crash Reconstruction - Level II	February 28, 2020
Master Public Information Officer (PIO)	October 22, 2020
UAVs in Accident Reconstruction	February 25, 2021
Intelligence-Led Policing	May 14, 2021
Advanced Tire Fire and Analysis	February 8, 2022
Microsoft Excel for Traffic Accident Reconstruction	February 22, 2022
Heavy Vehicle EDR Technician & Analyst Course	September 8, 2022
Berla Vehicle Forensics Course	November 4, 2022
Certified Vehicle System Forensics Operator	November 7, 2022
Certified Vehicle System Forensics Technician	November 7, 2022
Certified Vehicle System Forensics Examiner	November 7, 2022
Advanced Motorcycle Crash Analysis	May 18, 2023
Recon 3D Training Course	November 11, 2023
Advanced Commercial Data Systems & Analysis Course	October 14-15, 2024
Heavy Vehicle Event Data Recorder (HVEDR) Technician Series with Forensic Link Adapter and Smart Sensor Simulator #2	November 13-14, 2024
Toyota GTS+ Technician	June 6, 2025
Beyond the Last Precrash Speed Value	December 5, 2025
Advanced Commercial Vehicle Safety Systems	June 5, 2026
Tires and Wheels in Crashes	June 12, 2026
Kia/Hyundai/Genesis ADAS and EDR Research	July 10, 2026
Pavement Edge Drop Off	August 10, 2026

CONFERENCES, SEMINARS, COMPETITIONS, AND PRESENTATIONS

Year	Program	Details
2015	Southwest Police Motorcycle Skills Training and Competition Phoenix Police Department	Phoenix, AZ April 2015 1st Place Victory Team and 1st Place Victory Pair Ride

Year	Program	Details
2016	Southwest Police Motorcycle Skills Training and Competition Tucson Police Department	Tucson, AZ April 2016 2nd Place Team Ride
2016	International Association of Chiefs of Police (IACP) Drug Recognition Expert Conference	Denver, CO August 13-15, 2016
2016	Drugged Driving Summit Presented by AAA	Wichita, KS October 23-24, 2016
2017	Joint Prosecutor & Law Enforcement Officer Impaired Driving Seminar Kansas Highway Patrol	Wichita, KS
2017	River City Police Motorcycle Skills Training and Competition Blue Knights	Omaha, NE July 29-30, 2017
2018	International Association of Chiefs of Police (IACP) Drug Recognition Expert Conference	Nashville, TN August 13-15, 2018
2024	Symposium on EDR Research and Training NAPARS	Oklahoma City, OK April 8-12, 2024
2024	Illinois Association of Traffic Accident Investigators (IATAI) Annual Conference Illinois State Police	Orland Park, IL October 14-18, 2024 Presented on Motorcycle Accident Reconstruction

AWARDS AND RECOGNITION

Award / Recognition	Date
U.S. Army Certificate of Achievement	July 11, 1997
U.S. Army Certificate of Achievement (two awards)	February 4, 2000
U.S. Army Good Conduct Medal (two awards)	September 13, 2000; June 18, 2003
U.S. Army Achievement Medal (four awards)	September 26, 2000; December 31, 2001; November 15, 2002; May 3, 2004
U.S. Army Commendation Medal (two awards)	December 16, 2003; October 23, 2004
Denver Police Department Service Award	April 2005
Phoenix Police Department Commendation Award (three awards)	September 13, 2007; February 13, 2008; February 19, 2008
Colorado State Patrol High Achievement Award (three awards)	August 29, 2008; October 1, 2008; February 25, 2009
Colorado State Patrol Award for Excellence	March 1, 2010
Garden City Police Department Meritorious Service Award	January 3, 2013
Drug Enforcement Administration (DEA) Certificate of Appreciation	January 30, 2015
Top Drug Recognition Expert (DRE) in Kansas Kansas Highway Patrol	2015
Top Drug Recognition Expert (DRE) in Kansas Kansas Highway Patrol	2016
Kansas MADD Law Enforcement Hero	2017
Garden City Police Department Employee of the Quarter	October 22, 2017