

WES STARR

Principal Accident Reconstructionist

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PROFESSIONAL PROFILE

Principal Accident Reconstructionist with Kerley Reconstruction and honorably retired Phoenix Police Department Detective specializing in serious-injury and fatal traffic collisions. Law enforcement experience includes more than 18 years with the Phoenix Police Department, including 14 years assigned to the Vehicular Crimes Unit. Responsibilities included traffic-related homicide investigations, search warrant-supported vehicle inspections, officer-involved shooting support, and technical reconstruction.

Recognized by the Maricopa County Attorney's Office as an expert witness in traffic reconstruction. Provides technical analysis involving pre-impact and post-impact vehicle dynamics, occupant dynamics, scene evidence interpretation, vehicle damage, and direction of force. Reviews Event Data Recorder (EDR) reports and prepares two- and three-dimensional computer-aided reconstruction drawings and comprehensive technical reports explaining methods, findings, and conclusions.

CORE EXPERTISE

- **Serious-Injury & Fatal Collision Reconstruction:** fatal and serious-injury crash investigation, fault determination, charge support, collision sequence analysis, and reconstruction reporting
- **Event Data & Vehicle Inspection:** EDR report review and analysis, mechanical inspections, search warrants, vehicle damage inspections, and reconstruction support
- **Traffic-Related Criminal Investigations:** traffic homicide support, officer-involved shooting investigation support, incident report preparation, and investigative documentation
- **Scene, Vehicle & Physical Evidence Analysis:** pre-impact and post-impact locations, vehicle and occupant dynamics, direction-of-force assessment, roadway evidence, and vehicle evidence
- **Digital Mapping & Reconstruction Tools:** two- and three-dimensional CAD, FARO 3D scanner, FARO Scene, Leica GPS, Visual Statement Edge FX, and reconstruction diagrams
- **Law Enforcement Support & Training:** subject matter expertise for patrol officers, traffic investigation guidance, radar, search and seizure, interviews, and evidence collection

ACCREDITATION, CERTIFICATIONS, AND PROFESSIONAL AFFILIATIONS

Professional Affiliations	National Association of Professional Accident Reconstruction Specialists (NAPARS); Texas Association of Traffic Accident Reconstruction Specialists (TAARS)
Accident Reconstruction Training	Traffic Collision Reconstruction I, II, and III; Advanced Collision Investigation; At-Scene Traffic Collision Investigation; Crush Analysis; Human Factors in Traffic Crash Reconstruction; Motorcycle Crash Investigation.
Vehicle Data / Technical Tools	Event Data Recorder Technician; GPS Forensics Investigation; FARO 3D, FARO Scene, FARO 3D Scanner, Leica GPS Measuring System, Edge FX Technical Training, and two- and three-dimensional CAD reconstruction tools.
Law Enforcement & Investigative Training	Investigator / Detective School; Search and Seizure; Reid Interview and Interrogation; Biological Evidence Collection; Covert Entry / Lock Pick; Radar Operator Certification.

PROFESSIONAL EXPERIENCE

KERLEY RECONSTRUCTION LLC

May 2026 - Present

Principal Accident Reconstructionist

- Provide accident reconstruction consulting for legal and investigative matters, with emphasis on serious-injury and fatal collision analysis.
- Evaluate roadway evidence, scene measurements, vehicle damage, photographs, and technical reconstruction data to determine collision sequences and vehicle movements.

- Analyze pre-impact and post-impact vehicle dynamics, occupant motion, vehicle damage patterns, and direction of force. Compare analytical findings with documented scene and vehicle evidence.
- Review Event Data Recorder (EDR) reports alongside physical evidence, vehicle damage, and other reconstruction materials to evaluate recorded vehicle operation and its relevance to the collision.
- Prepare two- and three-dimensional computer-aided reconstruction drawings to illustrate roadway features, physical evidence, vehicle positions, and collision sequences.
- Develop reconstruction findings and opinions supported by physical evidence and technical analysis. Identify the methods, assumptions, and limitations underlying the conclusions.
- Prepare comprehensive reconstruction reports, calculations, diagrams, and supporting documentation that explain the investigation, analysis, findings, and opinions.
- Consult with attorneys, investigators, and other case professionals regarding reconstruction findings and technical issues. Prepare organized materials for case evaluation and courtroom presentation.

CITY OF PHOENIX POLICE DEPARTMENT

August 2011 - June 2025

Detective - Vehicular Crimes Unit / Accident Reconstructionist

- Conducted in-depth investigations of serious-injury and fatal traffic collisions to determine causation, fault, and appropriate criminal charges.
- Investigated traffic collisions and assisted in traffic-related homicide investigations and officer-involved shooting investigations.
- Determined pre-impact and post-impact locations and evaluated occupant and vehicle dynamics based on available physical evidence.
- Used two- and three-dimensional computer-aided drawing and reconstruction software to analyze vehicle dynamics and document collision evidence.
- Inspected and analyzed vehicle damage to determine direction of force; obtained search warrants for mechanical inspections and EDR report downloads and analysis.
- Prepared incident reports and reconstruction findings documenting investigative opinions and technical conclusions.
- Provided subject matter expertise, advice, and direction to patrol officers conducting minor traffic investigations.

CITY OF PHOENIX POLICE DEPARTMENT

January 2007 - August 2011

Police Officer

- Served as a Police Officer in Phoenix, Arizona, developing foundational experience in patrol operations, traffic enforcement, roadway safety, and collision response.
- Investigated traffic collisions and law-enforcement incidents, prepared official reports, and supported incident documentation.
- Applied traffic investigation training and radar operator certification in field assignments.

CITY OF PHOENIX STREET MAINTENANCE DEPARTMENT

April 2000 - January 2007

Street Maintenance / Class A Commercial Driver

- Maintained a Class A commercial license as part of street-maintenance duties for the City of Phoenix.
- Performed street maintenance operations involving asphalt and concrete removal, asphalt paving, debris hauling, and jobsite support.
- Operated dump trucks, backhoes, Bobcats, and related equipment to remove damaged materials and transport asphalt, equipment, and debris.
- Developed practical experience with roadway construction, pavement conditions, and heavy equipment operation.

RELEVANT TRAINING, CERTIFICATIONS, AND CONTINUING EDUCATION

Course / Certification	Date
Traffic Collision Reconstruction, International Police Technology and Management	July 2013
Traffic Collision Reconstruction III, AZPOST	August 2015
Traffic Collision Reconstruction II, AZPOST	December 2012
Traffic Collision Reconstruction I, AZPOST	September 2011
Event Data Recorder Technician, International Police Technology and Management	September 2013
Grade Crossing Collision Investigations, BNSF	November 2009

Course / Certification	Date
GPS Forensics Investigation, International Police Technology and Management	November 2013
Search and Seizure Training	December 2009
Advanced Collision Investigation, International Police Technology and Management	August 2011
At-Scene Traffic Collision Investigation, Phoenix Police	October 2011
Human Factors in Traffic Crash Reconstruction	February 2012
Motorcycle Crash Investigation, International Police Technology and Management	February 2012
Advanced Collision Investigation, International Police Technology and Management	October 2011
At-Scene Traffic Investigation, International Police Technology and Management	August 2011
Covert Entry / Lock Pick, Phoenix Police Department	October 2009
Biological Evidence Collection, Phoenix Police Department	March 2007
Radar Operator Certification, Phoenix Police Department	June 2010
Investigator / Detective School, Rio Salado Community College	August 2009
Reid Interview and Interrogation Techniques	September 2010
Microsoft Excel Basic and Advanced Classes	August 2014
Crush Analysis, AZDPS	October 2015
Edge FX Technical Training, Visual Statement Software	January 2012
FARO 3D Software Training	January 2015
FARO Scene Software Training	March 2021
FARO 3D Scanner Training	March 2021
Leica GPS Measuring System Training, Vehicular Crimes Unit	June 2012

AWARDS AND RECOGNITION

Award / Recognition	Date
Police Chief's Unit of the Year (two-time)	December 2014 / 2024
Distinguished Service Award	June, 2011