

Ricardo Mitchell, M.Sc., B.Sc.

Accident Reconstruction Expert | EDR Data Retrieval & Analysis Specialist | Forensic Animation Consultant

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PROFESSIONAL PROFILE

Accident reconstruction and EDR-focused expert with more than 10 years of experience investigating, analyzing, and reconstructing serious and fatal motor vehicle crashes. Specialized experience includes Event Data Recorder (EDR) data retrieval and analysis, crash scene documentation, crush and damage analysis, vehicle dynamics, forensic animation, and expert consulting for attorneys, insurers, and litigation matters. Combines law-enforcement crash investigation experience with a Master of Science in Data Science and a Bachelor of Science in Applied Statistics, supporting data-driven opinions, statistical interpretation, and clear presentation of complex crash evidence.

EXPERT SERVICES AND LITIGATION SUPPORT

- Accident reconstruction analysis for serious injury, fatality, disputed liability, and insurance matters.
- EDR / black box data retrieval, data interpretation, and integration of vehicle data into reconstruction opinions.
- Vehicle inspection, damage documentation, crash scene analysis, mapping, measurements, and evidence preservation guidance.
- Forensic animation and demonstrative visuals for attorney case evaluation, mediation, settlement, deposition, and trial preparation.
- Technical consulting on crash causation, vehicle dynamics, speed evidence, pre-impact events, driver inputs, and roadway / environmental factors.
- Preparation of expert reports, analytical summaries, demonstrative exhibits, and testimony support materials.

PROFESSIONAL EXPERIENCE

Chief Executive Officer & Accident Reconstruction Specialist

Crodymi LLC | Texas | January 2022 - Present

- Lead forensic crash reconstruction, EDR data retrieval, data analysis, and litigation-support services for attorneys, insurers, private clients, and other stakeholders.
- Conduct vehicle inspections, EDR / ACM data retrieval efforts, crash scene analysis, vehicle damage assessment, and reconstruction workflows for disputed crash matters.
- Integrate EDR data, crash evidence, roadway geometry, photographs, videos, witness materials, mapping data, and vehicle dynamics principles into clear technical opinions.
- Prepare reconstruction reports, analytical summaries, forensic animations, and demonstrative exhibits designed to communicate technical crash issues clearly and objectively.
- Use advanced technology and analytical tools, including drones, GPS / satellite data, Google Maps / roadway imagery, Vericom VC4000, data visualization platforms, and statistical software.
- Provide professional consulting and expert testimony support involving accident causation, EDR interpretation, vehicle dynamics, crash severity, and case-specific reconstruction issues.

Patrol Officer - Traffic Division

Lawton Police Department | Lawton, Oklahoma | August 2019 - April 2020

- Served as a patrol officer with traffic enforcement and accident investigation responsibilities.
- Investigated motor vehicle crashes through scene documentation, evidence collection, roadway observations, and analysis of contributing factors.
- Prepared traffic-related reports and supported further investigative and legal proceedings through accurate documentation and communication.

Police Officer - Accident Investigation & Reconstruction Unit

Ministry of National Security | Kingston, Jamaica | November 2008 - July 2019

- Investigated and reconstructed serious and fatal motor vehicle crashes, including complex matters involving government vehicles and public roadway incidents.
- Conducted scene mapping, forensic analysis, crash data collection, measurements, and documentation using GPS, Total Station, satellite data, and related investigative methods.
- Provided testimony and technical explanations regarding accident reconstruction, crash causation, scene analysis, and vehicle dynamics.
- Collaborated with law enforcement agencies, legal teams, and investigative stakeholders to preserve and communicate crash evidence for legal use.

EDUCATION

Master of Science in Data Science

Grand Canyon University | Phoenix, Arizona | Graduated October 2023

- GPA: 3.97; inducted into Alpha Chi Honor Society.

Bachelor of Science in Applied Statistics

University of Technology | Kingston, Jamaica | Graduated July 2016

- Graduated with honors.

CERTIFICATIONS AND SPECIALIZED TRAINING – Completed through the Institute of Police Technology and Management (IPTM), and other recognized training institutions.

Accident Reconstruction <ul style="list-style-type: none">• Certified Vetting Officer for Accident Investigation and Reconstruction Reports• Advanced Heavy Vehicle Accident Reconstruction• Heavy Vehicle Accident Reconstruction• Rollover Accident and Multiple Crash Investigations• Motorcycle Collision Analysis• Pedestrian / Bicycle Accident Reconstruction• Advanced Pedestrian-Bicycle Crash Investigation• Low Speed and Airborne Collision Analysis• Rotational Mechanics and Critical Speed Collision Analysis• Crash Zone	EDR and Vehicle Data <ul style="list-style-type: none">• Certified EDR Analyst• Event Data Recorder Use in Traffic Crash Reconstruction• Advanced Event Data Recorder Use in Traffic Crash Reconstruction• Event Data Recorder Analysis Course• Vericom VC4000 DAQ• Heavy Vehicle Electronic Control Modules Use in Traffic Crash Investigation and Reconstruction• Vehicle General Maintenance – Certification / Training
Forensic Scene Investigation and Mapping <ul style="list-style-type: none">• Crash Scene Forensic Investigation and Analysis• Forensic Scene Mapping Using Lasers• iWitness Close-Range Photogrammetry• GPS Forensic Collision	Human Factors, Biomechanics, and Damage Analysis <ul style="list-style-type: none">• Human Factors and Tire Examination• Biomechanics: Occupant Kinematics and Forensics• Crush Energy / Damage Analysis and Lamp Examination• Road Safety Audit Management• Animation Techniques Certification• ACTAR for Traffic Crash Investigator - course completion / examination preparation

TECHNICAL TOOLS AND PLATFORMS

- EDR / vehicle data: Bosch CDR and related EDR workflows; vehicle module access and data interpretation; manufacturer-specific data considerations where applicable.
- Crash measurement and field tools: Vericom VC4000, drones, GPS, satellite imagery, Google Maps / roadway imagery, scene mapping, and vehicle damage documentation.
- Analytics and visualization: Python, R, MATLAB, SPSS, SAS, Excel, Power BI, Tableau, GIS / geospatial analysis, and data visualization for legal use.
- Forensic demonstratives: crash scene graphics, vehicle-position illustrations, forensic animation, and presentation-ready reconstruction exhibits.

PROFESSIONAL SKILLS

Accident Reconstruction | EDR Data Retrieval and Analysis | Crash Scene Analysis and Mapping | Vehicle Dynamics | Crush Energy and Damage Analysis | Forensic Animation | Expert Report Preparation | Data Visualization for Legal Use | Statistical Analysis | Predictive Modeling | GIS and Geospatial Analysis | Human Factors Support | Biomechanics-Related Crash Analysis | Courtroom / Litigation Support

SELECTED CASE CAPABILITIES

- Passenger vehicle, heavy vehicle, pedestrian, bicycle, motorcycle, rollover, low-speed, airborne, and multi-impact collision analysis.
- Integration of EDR data with physical evidence, photographs, video, crash scene geometry, roadway features, and vehicle damage patterns.
- Objective opinions framed within available evidence, limitations, and reconstruction principles, with supplemental analysis available when additional evidence is obtained.