

DANNY ROBERTS

Sr. Accident Reconstructionist / Motorcycle Collision Specialist

Accident Reconstruction | Motorcycle & ATV/UTV Collision Analysis | Tire & Vehicle Handling Dynamics
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PROFESSIONAL PROFILE

Sr. Accident Reconstructionist with Kerley Reconstruction LLC specializing in motorcycle and ATV/UTV crash dynamics, tire performance, vehicle handling, and controlled test methodology. Began reconstruction consulting in 2018 through Danny Roberts Consulting LLC and joined Kerley Reconstruction in 2025, expanding into passenger, commercial, and heavy-vehicle collision assignments.

Prior 22-year Dunlop Tire Corporation career included original equipment and replacement tire development testing, high-speed stability and handling evaluations, data acquisition, quality systems, HSE, and technical reporting. This background supports analysis of tire condition and fitment, traction, braking, steering stability, loss-of-control events, roadway evidence, event data, and comprehensive reconstruction reporting.

CORE EXPERTISE

- **Motorcycle Accident Reconstruction:** motorcycle, ATV/UTV, two- and three-wheeled collision analysis, loss-of-control evaluation, rider influence, and handling dynamics
- **Scene, Vehicle & Evidence Documentation:** scene inspections, vehicle/tire inspections, photographs, measurements, tire and roadway evidence, and evidence preservation
- **Controlled Performance Testing:** OE and replacement tire testing, data acquisition, evaluation protocols, reporting, TS/ISO quality practices, and HSE safety processes
- **Tire Forensics & Vehicle Dynamics:** tire design, construction, condition, maintenance, OE fitment, wet/dry handling, traction, braking response, and steering control
- **Technical Reconstruction Methods:** speed determination, time-distance analysis, collision modeling, statistics/probability, audio speed determination, and EDR/CDR retrieval
- **Consulting, Instruction & Presentations:** expert reports, legal support, law enforcement tire forensics presentations, motorcycle police training, technical instruction, and media consultation

ACCREDITATION, CERTIFICATIONS, AND PROFESSIONAL AFFILIATIONS

Professional Affiliations	NAPARS; CAR2S; WATAI; American Motorcyclist Association (AMA), Lifetime Member
Accident Reconstruction Training	Advanced Motorcycle Crash Analysis; Motorcycle Collision Modeling; FTG Motorcycle Crash Reconstruction; KR Level 1 Collision Investigation
Vehicle Data / Technical Tools	Bosch CDR Tool Technician; EDR - Beyond the Last Speed Precrash Value; audio speed determination training
Tire & Motorcycle Specialization	Tire Exams; Motorcycle Rider Airbags and PPE; Two Wheels vs. Three Wheels; tire dynamics; OE tire fitment/testing; tire and roadway evidence analysis
Federal Aviation Administration	Remote Drone Pilot No. 5292451

PROFESSIONAL EXPERIENCE

KERLEY RECONSTRUCTION LLC

2025-Present

Sr. Accident Reconstructionist / Motorcycle Collision Reconstruction Specialist

- Independently conduct and manage collision investigations for legal and investigative matters involving passenger vehicles, commercial and heavy vehicles, motorcycles, and ATVs/UTVs, with specialized emphasis on motorcycle, tire-related, and vehicle-handling issues.
- Conduct collision scene examinations and vehicle and tire inspections. Photograph, measure, and document roadway conditions, tire marks, vehicle damage, component condition, and other physical evidence relevant to the collision.

- Perform speed, braking, stopping-distance, time-distance, and vehicle-dynamics analyses to evaluate vehicle movements, collision sequences, visibility, and contributing factors.
- Evaluate tire condition, tire selection, original equipment fitment, and tire and roadway evidence to assess traction and tire-related effects on vehicle handling and collision dynamics.
- Apply reconstruction training and performance-testing experience to evaluate motorcycle and ATV/UTV braking response, steering stability, rider-vehicle interactions, and loss-of-control sequences.
- Review collision reports, photographs, videos, witness statements, and electronic vehicle data for consistency with physical evidence. Retrieve and analyze vehicle event data within areas of qualification, accounting for recording-system capabilities and limitations.
- Develop independent reconstruction opinions and prepare technical reports, calculations, diagrams, and exhibits that explain the methodology, findings, supporting evidence, assumptions, and analytical limitations.
- Participate in technical peer reviews and assist reconstructionists with drafting, reviewing, and revising reports, calculations, and exhibits. Identify technical inconsistencies, unsupported conclusions, and matters requiring additional analysis.
- Supervise, train, and mentor Associate Accident Reconstructionists and assigned technical personnel. Coordinate work assignments, review technical work, evaluate competency, and provide guidance in evidence evaluation, reconstruction methods, and report preparation.
- Coordinate inspections, evidence requests, and technical assignments with reconstructionists, technicians, and case management personnel. Monitored case progress and deadlines while maintaining organized records and preserving original physical and electronic evidence.

DANNY ROBERTS CONSULTING LLC

2018-2025

Accident Reconstruction Consultant / Motorcycle and ATV/UTV Specialist

- Founded and operated a consulting practice focused primarily on motorcycle and ATV/UTV crash reconstruction matters throughout North America.
- Performed scene and vehicle/tire inspections, reviewed roadway and tire evidence, analyzed speed and event data, and prepared technical reconstruction reports.
- Applied technical expertise in vehicle handling, tire dynamics, controlled performance testing, and motorcycle stability and control to support crash causation analysis.
- Evaluated tire-related factors including condition, maintenance, design characteristics, fitment, and behavior as they relate to traction, braking, steering response, and loss of control.
- Provided subject-matter analysis where motorcycle design, vehicle platform, tire selection, and rider/vehicle dynamics were central to reconstruction opinions.

DUNLOP TIRE CORPORATION / DUNLOP MOTORCYCLE TIRES

2012-2017

Sr. Manager of Testing

- Managed North American motorcycle and ATV tire testing operations, including personnel, test schedules, track coordination, vehicle procurement, capital and operational budgets, and new tire media introduction events.
- Oversaw testing practices involving original equipment and consumer replacement tire products across on-road, off-road, ATV/UTV, and racing applications.
- Managed quality, safety, and reporting expectations, including TS/ISO quality standards, HSE considerations, test documentation, and evaluation consistency.
- Worked with engineers, development teams, and original equipment stakeholders to plan, execute, document, and interpret motorcycle and ATV/UTV tire performance evaluations.

DUNLOP TIRE CORPORATION / DUNLOP MOTORCYCLE TIRES

1995-2012

Associate Test Engineer / Development Test Rider

- Led on-vehicle North American development testing for Dunlop original equipment and replacement motorcycle, ATV/UTV, off-road, on-road, and race tire products.
- Conducted controlled evaluations of tire and vehicle performance and safety, including dry handling, wet handling, low-speed stability, high-speed stability, performance durability, and comparative tire evaluations.
- Completed tire development, engineering, and manufacturing training with Sumitomo (Dunlop) engineers in Kobe, Japan; completed high-speed stability training at the Japan Automobile Research Institute; and trained with Global Suzuki on ATV original equipment tire performance criteria.
- Introduced data acquisition into tire development testing to strengthen subjective rider feedback, original equipment performance criteria, and comparative tire evaluation methodology.

- Evaluated with and trained engineers in development testing at venues throughout the United States, Japan, and France; worked alongside original equipment manufacturers including Harley-Davidson, Honda, Suzuki, Kawasaki, Yamaha, Indian, Victory, Buell, Polaris, and Arctic Cat.

PROFESSIONAL MOTORCYCLE RACING

1983-1995

Professional Racer / AMA Professional Road Racing License

- Began competitive motocross at age 12 and began professional motorcycle racing in 1983, winning multiple state and regional championships.
- Transitioned from motocross to road racing in 1987 and obtained an AMA Professional Road Racing license.
- Competed nationally and internationally in road racing, including Team USA international appearances and AMA/CCS, WERA Pro Series, and Honda CBR900RR Challenge events.
- Evaluated development tires during race-event practice sessions for Dunlop in the early 1990s, creating a bridge between professional racing, controlled testing, and later forensic crash analysis.

RELEVANT TRAINING, CERTIFICATIONS, AND CONTINUING EDUCATION

Course / Certification	Date
Advanced Motorcycle Crash Analysis	May 2022
Traffic Signal Collisions	October 2023
Statistics and Probability for Crash Reconstructionist	November 2023
Determining Vehicle Speed from Audio Recording	February 2024
Motorcycle Rider Airbags and PPE	May 2024
Motorcycle Collision Modeling	May 2024
Two Wheels vs. Three Wheels in Accident Investigation	May 2024
Time and Distance for Accident Reconstruction	October 2024
Horrible Crash Reconstruction	October 2024
Tire Exams	October 2024
Law Enforcement Investigatory Role in Civil and Criminal Cases	February 2025
FTG Motorcycle Crash Reconstruction	June 2025
KR Level 1 Collision Investigation	October 2025
EDR - Beyond the Last Speed Pre-crash Value	December 2025
Bosch CDR Tool Technician	December 2025
So, You Have a Motorcycle Crash NAPARS Seminar	April 2026
NAPARS – EDR Symposium	April 2026
IPTM – Edge Drop Off Training	August 2026

PRESENTING, TEACHING, AND PROFESSIONAL INSTRUCTION

Year	Program / Details
1995	Team Suzuki Road Racing School - Guest Instructor Mid-Ohio Sports Car Course, Ohio
2001, 2003	Gary Bailey Motocross School - Guest Instructor Huntsville, Alabama
2005, 2008, 2012	Birmingham, Alabama Motorcycle Police Training - Focus Forward, ergonomics, rider influence on motorcycle handling, smooth braking, tire capability on wet roads, and tire maintenance Huntsville, Alabama
2006	International Proving Grounds Safety Committee - Motorcycle vs. Car Phoenix, Arizona
2010	Dunlop Development Engineers, Marketing, and Sales - Understanding Evaluation Reports and What Does It All Mean?; evaluation criteria, application-specific testing, vehicle differences, report ratings, rider comments, rider terminology, and overall evaluation conclusions Huntsville, Alabama
2011	Gold Wing Road Riders Association (GWRRA) - Testing Touring Tires Huntsville, Alabama
2021	Collegedale Police - Tire Forensics and Tire Safe Practices Collegedale, Tennessee
2021	South Carolina D.A.R.E. Law Enforcement - Tire Forensics Gatlinburg, Tennessee
2024	SATAI - Motorcycle Tires in Accidents Glendale, Arizona
2024	WATAI - Motorcycle Tires in Accidents Seattle, Washington
2024	North Alabama Bar Association - Motorcycle Tires in Accidents Huntsville, Alabama
2025	WAAY 31 (ABC) Law Call - Motorcycle Wrecks and Reconstruction Huntsville, Alabama

PROFESSIONAL MOTORCYCLE RACING AND MOTORSPORTS HONORS

Recognition / Competition	Year
NMA Florida Region 125cc MX Expert Champion	1983
FMC Florida Fall Series 125cc MX Expert Champion	1984
FMC Florida State 250cc MX Expert Champion	1984
AMA Florida Winter Warm Up 250cc MX Champion	1984

Recognition / Competition	Year
AMA/CCS Expert Heavyweight and Unlimited Superbike - six-time champion	1988-1993
AMA/CCS Daytona Race of Champions Winner, Expert Heavyweight Supersport	1988
AMA/CCS Daytona Race of Champions, Expert Unlimited Supersport #2	1988
Macau Grand Prix (China), Team USA	1989, 1990, 1992
Red Stripe South American Grand Prix, Team USA	1991, 1992
WERA Pro Series Unlimited Expert National Winner	1993
WERA Pro Series Middleweight Expert National #2	1993
AMA/Honda CBR900RR Challenge National Champion	1993, 1994
AMA/CCS Florida Unlimited Supersport Champion	1995
AMA/CCS Florida Heavyweight Supersport Champion	1995
AMA/CCS Daytona Unlimited Supersport Champion	1995

SELECTED PRESS AND MEDIA REFERENCES

Publication / Date	Reference
Motorcyclist Online October 13, 2013	Profiled Roberts' Dunlop tire-testing experience and role in motorcycle tire development.
Sport Rider March/April 1995	Covered Roberts' Honda CBR900RR Challenge win and racing performance.
Motorcyclist Magazine 2012	Featured Roberts in "The Bike That Changed My Life."
Swap Moto Live November 25, 2019	Discussed Roberts' role overseeing the facility and his road racing and motocross background.
Ultimate Motorcycling March 29, 2010	Referenced Roberts among Dunlop test riders involved in D211 GP-A development.
The Driving Force 2001	Reported Roberts as the 2001 Super Karts USA Long Track National Champion.
ZX-10R.net October 3, 2009	Identified Roberts among Dunlop's principal motorcycle tire test riders.