

Jonathan Cherney Consulting & Investigations LLC

22431 Antonio Parkway B160, Suite 441

Rancho Sta Marg, CA 92688

(949) 525-0500

Jonathan@JCherneyConsulting.com



Jonathan Cherney Curriculum Vitae

Employment

Jonathan Cherney Consulting & Investigations LLC	2004 – Present
Irvine Police Department – Detective/Team Leader - M.A.I.T.	2001 – 2019
Irvine Police Department – Motorcycle Officer	1997 – 2001
Irvine Police Department – Patrol Officer	1989 – 1997

Retired from the City of Irvine Police Department November of 2019 after 30 years of service. Previously assigned to uniformed patrol, bicycle patrol and motorcycle traffic enforcement. Was assigned to the Field Operations Division as a Detective responsible for traffic-related cases. Worked as the “Team Leader” for the Irvine Police Department’s M.A.I.T. (Major Accident Investigation Team). Was responsible for the investigation of vehicular murder & homicide cases, traffic collision reconstruction of fatal & major injury collisions, hit and run investigations, on-duty officer involved collision investigations and city-liability collision investigations. Has also worked non-vehicular homicide cases, officer involved shootings and internal affairs investigations involving government-owned vehicles. In just the first 12 years of his law enforcement career, he had already issued over 10,000 traffic citations and had personally been on scene and investigated over 1000

traffic collisions. Has reviewed and investigated over 30,000 collision reports during the course of his entire law enforcement career, and has investigated or assisted with the investigation of more than 130 Irvine-based motor vehicle and traffic related deaths.

Has assisted, and continues to assist, with several additional motor vehicle collisions including vehicular manslaughter and murder cases in other jurisdictions throughout the Southern California area. Testifies in criminal and civil proceedings that concern mathematical computations and investigative procedures. Worked with the City of Irvine Traffic Engineer's Office to improve traffic safety and reduce potential city liability.

Utilizes complex computerized measuring devices such as the Sokkia Total Station and the FARO Focus X330 and S350 3D point cloud laser scanner to conduct forensic mapping of fatal traffic collision scenes. Uses CAD programs to prepare scale diagrams that accurately depict collision scenes. Uses the Bosch Crash Data Retrieval Tool, Hyundai GIT, Kia GIT and the Tesla EDR kit, to download collision information from automobile "Black Boxes" to assist with a variety of investigations. Supervised all civilian traffic investigators and performed regular training to department personnel. Has assisted other police agencies with investigations including, but not limited to, fatal traffic investigations, collision reconstructions, domestic violence cases, officer involved collisions and shootings. Has provided forensic analysis and litigation support for criminal and civil cases. Has qualified as a court-recognized expert in "Accident Reconstruction" and has testified in jury trials in Orange, Los Angeles and Riverside Counties. Also consults on police practices and procedures pertaining to police pursuit driving, emergency vehicle operations, traffic enforcement and DUI investigations. Also acts as an analyst, consultant & technical advisor for TV and News Media in the field of accident investigation and reconstruction as well as other law enforcement topics.

Agencies assisted include the Alhambra Police Department, Bell Gardens Police Department, Brea Police Department, Buena Park Police Department, Burbank Police Department, Butte County District Attorney's Office, California Highway Patrol, California State University Fullerton Police, Costa Mesa Police Department, Cypress Police Department, El Centro Police Department, Fountain Valley Police Department, Fullerton Police Department, Garden Grove Police Department, Huntington Beach Police Department, Irvine Police Department, Laguna Beach Police Department, La Habra Police Department, La Palma Police Department, Long Beach Police Department, Long Beach City Prosecutor's Office, Los Alamitos Police Department, Los Angeles County District Attorney's Office, Los Angeles County Sheriff's Department, Los Angeles Police Department, Montebello Police Department, Monterey Park Police Department, Newport Beach Police Department, Orange County District Attorney's Office, Orange County Sheriff's Department, Orange Police Department, Placentia Police Department, Pomona Police Department, Riverside County District Attorney's Office, Santa Ana Police Department, Tustin Police Department, University of California (Irvine) Police Department, Ventura Police Department, Ventura County District Attorney's Office, Westminster Police Department and the Whittier Police Department.

Created, founded and managed SOCTIA (Southern California Traffic Investigators Association) which is comprised of approximately 500 members from various federal, state and local agencies from the counties of Orange, Los Angeles, San Diego, Riverside, San Bernardino, Ventura, Kern and San Francisco from 2008 to 2019. Has previously served on the Board of Directors for the California Association of Accident Reconstruction Specialists, and is the founder of LEARN (Law Enforcement Accident Reconstruction Network).

Credentials

California Licensed Private Investigator - Principal (License #PI28638)

Bureau of Security and Investigative Services (04/14)

California P.O.S.T. Certified Police Academy Instructor

Regional Criminal Justice Training Center (05/22)

Remote Pilot: Small Unmanned Aircraft Systems

Federal Aviation Administration (11/23)

Education

Bachelor of Arts in Criminal Justice

California State University, Fullerton, CA (05/89)

Associate in Arts

Fullerton College, Fullerton, CA (07/87)

Police Basic Course

Golden West Police Academy, Huntington Beach, CA (12/89)

Traffic Accident Investigation Training Institute (180 hours)

University of California, Riverside, CA (02/01)

Advanced Traffic Accident Reconstruction Training Institute (200 hours)

University of California, Riverside, CA (06/01)

Accident Reconstruction Certificate Program (101 hours)

SAE (Society of Automotive Engineers) International (08/19)

Classes and Seminars

Basic Driver's Training (24 hours)

Instructors: Staff

San Bernardino County Sheriff's Department (10/89)

Basic Traffic Accident Investigation (40 hours)

Instructors: Staff

San Bernardino County Sheriff's Department (10/93)

Traffic Radar Operation (24 hours)

Instructors: Staff

Riverside County Sheriff's Department (03/94)

Intermediate Traffic Collision Investigation (40 hours)

Instructors: Staff

San Diego Regional Law Enforcement Training Center (04/94)

Basic Bicycle Patrol (24 hours)

Instructors: Staff

Orange County Sheriff's Department (01/97)

Motorcycle Training Basic Course (80 hours)

Instructor: Stephen Brinkerhoff, Huntington Beach Police Department, Retired
San Bernardino County Sheriff's Department (06/97)

Traffic Lidar (Laser Speed Detection) Operation (4 hours)

Instructor: Staff of Kustom Signals, Inc.

Irvine Police Department (11/97)

Commercial Vehicle Enforcement (8 hours)

Instructor: Bill Worley, CHP, Retired

Rio Hondo College (01/98)

Grade Crossing Collision Investigation (8 hours)

Instructor: Tim K. Nehrling, Union Pacific Railroad Police

Union Pacific Railroad Police Department (07/98)

Driving Under the Influence Seminar (40 hours)

Instructor: William Cavanaugh, Cavanaugh & Associates
Holiday Inn, Laguna Hills, CA (10/98)

Advanced Traffic Collision Investigation (80 hours)

Instructors: Staff

San Diego Regional Law Enforcement Training Center (10/98)

Traffic Collision Investigation/Reconstruction (80 hours)

Instructors: Tom Shelton & Bill Esmay, CHP M.A.I.T., Retired

Riverside County Sheriff's Department (12/99)

Lamp Analysis in Traffic Accidents (8 hours)

Instructor: Captain Joe Domenoe, Temecula Police Department

University of California, Riverside (02/00)

Traffic Collision Investigation – Low Speed Impacts (40 hours)

Instructor: Rudy Degger, Rudy Degger & Associates, Inc.

Riverside County Sheriff's Department (10/00)

Staged Traffic Accidents: Detection and Investigation (16 hours)

Instructor: Joseph J. Del'Marmol III, CHP, Retired

University of California, Riverside (11/00)

Reconstruction of Automobile Collisions Involving Pedestrians/Bicycles (24 hours)

Instructor: Robert E. Mahoney, Robert E. Mahoney & Associates

Riverside County Sheriff's Department (11/00)

Commercial Vehicle Accident Investigation (40 hours)

Instructor: Bob Wilson, CHP, Retired

University of California, Riverside (03/01)

Traffic Accident Photography (16 hours)

Instructor: Steven Staggs, University of California, Riverside, Police Department

University of California, Riverside (04/01)

Human Factors in Accident Reconstruction (8 hours)

Instructor: Anthony C. Stein, PhD, Safety Research Associates, Inc.

University of California, Riverside (06/01)

Human Factors (8 hours)

Instructor: Carl Reichenberg, CHP

Riverside County Sheriff's Department (08/01)

California Law Enforcement Seat Belt Summit (8 hours)

Sponsored by California Highway Patrol

Sacramento, CA (11/01)

Motorcycle Collision Dynamics (16 hours)

Instructors: William Zito, Kawasaki Corp. & Robert Kovach, CHP, Retired
University of California, Riverside (02/02)

Injury Mechanisms and Biomechanics during Motor Vehicle Collisions (8 hours)

Instructor: Rick N. Robertson, PhD
Anaheim Police Department (02/02)

Office of Traffic Safety Summit 2002 (Occupant Protection and DUI) (16 hours)

Instructors: Staff
Anaheim, CA (05/02)

Crash Data Retrieval Systems in Traffic Collision Reconstruction (6 hours)

Instructor: Forrest Folck, Motor Vehicle Forensic Service
University of California, Riverside (05/02)

Principles of Vehicular Homicide & Expert Testimony (4 hours)

Instructor: Chief Deputy District Attorney Creg Datig, Riverside County D.A.'s Office
Anaheim Police Department (08/02)

Basic Computer-Aided Collision Diagramming Using Autosketch (24 hours)

Instructors: Charles Barton, L.A. County Sheriff's Department & Frank Terrio, Pomona
Police Department, Retired
University of California, Riverside (10/02)

Vehicle Emissions & Tampering (2 hours)

Instructor: Ken Helgren, California Air Resources Board
Irvine Police Department (02/03)

Tire Forensics & Defects (8 hours)

Instructor: Thomas Giapponi P.E., TRG Tech
Garden Grove Police Department (03/03)

Conservation of Momentum & Vector Analysis (8 hours)

Instructor: Rudy Degger, Rudy Degger & Associates
Orange County Sheriff's Department (05/03)

Critical Speed Analysis & Vehicle Testing (16 hours)

Instructors: Officers Rich Wong & Mike Seruga, CHP Southern M.A.I.T.
Irwindale Speedway, Irwindale, California (06/03)

Grade Crossing Collision Investigation (8 hours)

Instructors: Steve Smith, L.A.S.D. & Tim K. Nehrling, Union Pacific Railroad Police
Anaheim Police Department (06/03)

Homicide Investigation (40 hours)

Instructors: Staff
Orange County Sheriff's Department (07/03)

Crash Data Retrieval Toolkit Operator Certification (24 hours)

Instructor: W. R. "Rusty" Haight, Collision Safety Institute
Anaheim Police Department (12/03)

Lamp Analysis in Traffic Accidents (8 hours)

Instructor: Captain Joe Domeneo, Temecula Police Department
Garden Grove, CA (02/04)

**Southwestern Association of Technical Accident Investigators Spring Conference
(Momentum Analysis & Energy Balancing Solutions) (14 hours)**

Instructors: Staff
Las Vegas, NV (03/04)

Basic Motor Vehicle Inspection (40 hours)

Instructor: Charles Radford, CHP MAIT
Riverside County Sheriff's Department (04/04)

Acceleration & Vericom Familiarization (13 hours)

Instructor: Richard A. Jobe, President, Vericom Computers, Inc.
Fontana Police Department (10/04)

Motorcycle Crash Investigation (40 hours)

Instructors: Albert T. Baxter & Neil Robar, Institute of Police Technology & Management
Orange County Sheriff's Department (03/05)

Damage Analysis and Energy Methods in Traffic Collision Reconstruction (40 hours)

Instructors: John Daily & Nathan Shigemura, Institute of Police Technology &
Management
University of North Florida, Jacksonville, FL (10/05)

Mapping with Crash Zone – Crime Zone (20 hours)

Instructor: Ronald Sanders, Seattle Police Department
University of California, Riverside (01/06)

Advanced Crash Zone – Crime Zone (16 hours)

Instructor: Ronald Sanders, Seattle Police Department
University of California, Riverside (01/06)

Post-crash Management in a Hybrid World: Implications for EMS and 1st Responders (2 hours)

Instructors: Dr. Stratton, Dr. Miller, Doug Sato and Dan Johnston
University of Irvine Medical Center, Orange (09/06)

Dementia & Driving Dilemmas Seminar (4 hours)

Instructors: Staff arranged by Center of Trauma & Injury Prevention Research
University of Irvine Medical Center, Orange (02/07)

The “Real Costs” of Motor Vehicle Crashes in the OC (2 hours)

Instructors: Dr. A. Novac, Dr. F. Vaca, Dr. G. Chakravarthy and Pete Moraga
University of Irvine Medical Center, Orange (04/07)

Vehicle Accident Reconstruction Methods (16 hours)

Instructors: Raymond M. Brach, PhD PE & R. Matthew Brach, PhD PE
Society of Automotive Engineering
Troy, Michigan (08/07)

Appropriate Applications of Momentum Analysis/Common Errors in Determining Post-Impact Trajectories/New Developments in Event Data Recorders/Investigation & Inspection of Vehicles in Rollover Collisions (16 hours)

Instructors: Gary Cooper, Bruno Schmidt, Ph.D., & Don Stevens
SATAI, San Diego, CA (11/07)

California Motorcycle Safety Summit (8 hours)

Instructors: Staff of California Office of Traffic Safety
Irvine, CA (05/08)

Critical Speed Yaws/Rotational Mechanics/Pole Impact Analysis/Analysis of Airborne Vehicles (4 hours)

Instructors: John Daily & Nathan Shigemura
SATAI, San Diego, CA (10/08)

Interview and Interrogation (24 hours)

Instructor: David Buckely, John E. Reid & Associates
Anaheim, CA (02/09)

Vehicular Homicide Conference (27 hours)

Instructors: Staff from the California District Attorneys Assn and Office of Traffic Safety
San Diego, CA (06/09)

Southwestern Association of Technical Accident Investigators Fall Conference (Aftermarket Components & the EDR/EDR Discrepancies, Stiffness Data Research and Calculations/Experts & Lawyers in the Courtroom) (16 hours)

Instructors: Staff

San Diego, CA (11/09)

Staged Automobile Collision Training for Law Enforcement and Patrol Officers (4 hours)

Instructor: Sergeant Chris Mendez, California Department of Insurance

Irvine, CA (02/10)

Vehicular Homicide Seminar (27 hours)

Instructors: California District Attorneys Association & Office of Traffic Safety

Santa Barbara, CA (05/12)

ARAS360 Advanced 3D Computer Diagramming and Animation for Incident Reconstructions, Including Basic Nikon Total Station Operation (32 hours)

Instructor: Brad Booth

Escondido, CA (06/12)

Event Data Recorder Use in Traffic Crash Reconstruction (40 hours)

Instructors: Richard Ruth & Bill Wright, Institute of Police Technology & Management

Irvine, CA (08/12)

Human Factors in Traffic Crash Reconstruction (40 hours)

Instructor: Patrick J. Robins, PhD, Institute of Police Technology & Management

Irvine, CA (08/13)

Vehicle Homicide Conference (30 hours)

Instructors: Staff of the California District Attorneys Association

Sacramento, CA (06/14)

Forensic Mapping with MapScenes EVR (24 hours)

Instructor: Joel Salinas, JSA Forensic Mapping

Irvine, CA (07/14)

Internal Affairs, Professional Standards and Ethics (32 hours)

Instructors: Greg Anderson, Timothy Long & Neil Moore, Institute for Law Enforcement

Administration at the Center for American & International Law

Plano, TX (07/14)

Low Speed Impact Analysis using IIHS & CDR Data (8 hours)

Instructor: Mark Whelchel

Glendora, CA (01/15)

Street Racing and Modified Vehicle Investigations (4 hours)

Instructors: Sgt. Jeff Higbee & Det. Thomas O'Dell, Ontario PD
& Jose Corona, Bureau of Automotive Repair
Irvine, CA (04/15)

FARO Focus 3D X 330 Point Cloud Laser Scanner Training (40 hours)

Instructor: Bobby Jones, FARO
Irvine, CA (06/15)

Accessing & Interpreting Heavy Vehicle Event Data Recorders (24 hours)

Instructors: John Steiner, Timothy Cheek, & David Plant
Society of Automotive Engineering International
Oxnard, CA (10/15)

FARO 3D Point Cloud Laser Scanner & SCENE Software Workshop (12 hours)

Instructor: Russell Boynton, FARO
Irvine, CA (04/16)

Motorcycle Crash Investigation (40 hours)

Instructors: James Sloan & Keith Rodaway, Institute of Police Technology &
Management
Pomona, CA (05/16)

Occupant Kinematics for the Traffic Crash Reconstructionist (40 hours)

Instructors: Jeffrey Pike & Greg Sullenberger, Institute of Police Technology &
Management
Irvine, CA (08/16)

PC-Crash Version 11.0 Advanced Workshop (24 hours)

Instructors: Lead Developer Andreas Moser & Brad Heinrichs of MEA Forensic Engineers
Vancouver B.C., Canada (9/17)

PC-Crash Version 11.0 Essentials & Advanced Workshop (32 hours)

Instructors: Lead Developer Andreas Moser & Brad Heinrichs of MEA Forensic Engineers
Irvine, CA (01/18)

FARO 3D Point Cloud Laser Scanner & SCENE Software Workshop (8 hours)

Instructor: Warren Kelm & Joe Weiger, FARO
Camp Pendleton, CA (02/18)

ALCO-SENSOR V_{XL} Portable Evidential Breath Testing Course (4 hours)

Instructor: Nicholas Casassa, Orange County Crime Lab
Orange, CA (06/18)

Legal Sciences Courtroom Success Course (16 hours)

Instructor: John Kwasnoski, Professor Emeritus of Forensic Physics
Irvine, CA (08/18)

Utilizing Video Evidence in Traffic Investigations (Interpreting Video Compression, Refresh Rates & Reverse Projection) (8 hours)

Instructor: Andrew Fredericks, INPUT-ACE
Irvine, CA (09/18)

Reconstruction and Analysis of Rollover Crashes of Light Vehicles (8 hours)

Instructor: Gray Beauchamp, Kineticorp
Society of Automotive Engineering International
El Segundo, CA (10/18)

Reconstruction and Analysis of Motorcycle Crashes (8 hours)

Instructors: Stein Husher, Motion+Momentum Forensics
Louis Peck, Axiom Forensic
Society of Automotive Engineering International
El Segundo, CA (10/18)

Video Evidence Workflow Training (16 hours)

Instructor: Andrew Fredericks, INPUT-ACE
Irvine, CA (12/18)

Event Data Recorder Use in Traffic Crash Reconstruction – Level I (40 hours)

Instructor: Richard Ruth, Institute of Police Technology and Management
Irvine, CA (12/18)

Applied Vehicle Dynamics (28.5 hours)

Instructors: Tom McCready, Patrick Caherty, Erik Maassen, & Ed Bedner
Society of Automotive Engineering International
Thermal, CA (03/19)

Basic Tire Mechanics and Inspection (8 hours)

Instructors: Thomas R. Giapponi, TRGtech Tire Consulting LLC
Society of Automotive Engineering International
Troy, MI (04/19)

California Traffic Safety Resource Prosecutor's Traffic College (15 hours)

Instructors: Staff
Orange, CA (07/19)

Vehicle Crash Reconstruction: Principles and Technology (24 hours)

Instructors: Nathan Rose, Kineticorp & Wesley Grimes, Collision Engineering Associates
Society of Automotive Engineering International
Denver, CO (08/19)

Everything You Need to Know About Cross-Examination of Expert Witnesses (3 hours)

Presenter: Los Angeles Deputy District Attorney Brian Kelberg
Los Angeles, CA (11/19)

PC-Crash Version 12.0 Essentials & Advanced Workshop (24 hours)

Instructors: Lead Developer Andreas Moser & Brad Heinrichs of MEA Forensic Engineers
Irvine, CA (02/20)

Photography for Accident Reconstruction, Product Liability, and Testing (24 hours)

Instructor: Tom Vadnais, PE, Vadnais Engineering
Society of Automotive Engineering International
Irvine, CA (02/20)

2020 I.DRR (Interactive Driver Response Research) User Forum and Training (24 hours)

Instructors: Jeff Muttart, PhD, Swaroop Dinakar & Darlene Edewaard
Las Vegas, NV (02/20)

2020 Event Data Recorder Summit (18 hours)

Presenters: Staff for the Crash Data Group
Houston, TX (03/20)

Helmets & the Biomechanics of Head Injury (1.25 hours)

Presenters: Benjamin Elkin, PhD PE, Alyssa DeMarco, MS PE & Stephanie Bonin, PhD PE
MEA Forensic Internet Webinar (07/20)

Video Analysis & the Reconstruction of Events (1.25 hours)

Presenters: Tom Flynn, MSc PE, Cole Young, MS PE, & Bradley Heinrichs MSc PE
MEA Forensic Internet Webinar (09/20)

CA²RS Quarterly Training: Drones: New Regulations and Licensing (2 hours)

Presenter: David Cameron
Zoom Webinar (04/21)

Bicycle Accident Investigations (1 hour)

Presenters: Gunter Siegmund, PhD & Dennis Turriff, PhD
MEA Forensic Internet Webinar (06/21)

Impaired Driving, Speed & Seatbelts (1.25 hours)

Presenters: Kurt Ising, MASc PE, Russell Gish, PhD PE and Benjamin Elkin PhD PE
MEA Forensic Internet Webinar (10/21)

CA²RS Annual Conference: Accident Investigation, Reconstruction & Case Studies (20 hours)

Presenters: Adam Hyde, Roger Barrette & Andrew Thomas
South Lake Tahoe, CA (10/21)

Introduction to CloudCompare Software “Zero to Hero” (10 hours)

Presenters: Eugene Liscio PE, ai2-3D Forensics
Zoom Webinar (10/21)

2022 I.DRR (Interactive Driver Response Research) User Forum and Training (24 hours)

Instructors: Jeff Muttart, PhD and Swaroop Dinakar
San Diego, NV (03/22)

CA²RS Quarterly Training: Using Activity App GPS Data in Accident Reconstruction (1.5 hours)

Presenter: Katerina Blazek, PhD, InSciTech, Inc.
Zoom Webinar (03/22)

California P.O.S.T. Academy Instructor Certification Course (40 hours)

Presenters: Greg Faessel & Tracy Zuber
Huntington Beach, CA (05/22)

CA²RS Quarterly Training: Understanding and Using Ignition Cycles in your Investigations (2 hours)

Presenter: Kent Boots
Zoom Webinar (05/22)

Optics, Lighting and Visibility for the Forensic Investigator (24 hours)

Instructor: James S. Sobek, P.E.
Lincoln, Ne (10/22)

CA²RS Annual Conference: Emerging Technologies in Accident Reconstruction, Case Studies & Courtroom Testimony (20 hours)

Presenters: Steve Irwin & Staff, Aperture LLC
Irvine, CA (10/22)

CA²RS Quarterly Training: What is PRT? (5 hours)

Presenter: Swaroop Dinakar, Driver Research Institute
Irvine, CA (01/23)

PC Crash Essentials & Expert Skills Workshop (32 hours)

Instructors: Andreas Moser and Bradley Heinrichs
Rancho Santa Margarita, CA (02/23)

World Reconstruction Exposition (WREX 2023) (40 hours)

Presenters: Staff
Orlando, FL (04/23)

CloudCompare Software (10 hours)

Presenters: Eugene Liscio PE, ai2-3D Forensics
Zoom Webinar (06/23)

CA²RS Annual Conference: Pedestrian Accident Investigation & Biomechanics (20 hours)

Presenters: Adam Hyde, Roger Barrette, Andrew Thomas & Kevin Adanty Ph.D.
South Lake Tahoe, CA (10/23)

2024 Response User Forum & Training (24 hours)

Presenters: Instructors: Jeff Muttart, PhD, Swaroop Dinakar & Tim Maloney
Long Beach, CA (02/24)

2024 Event Data Recorder Summit (20 hours)

Presenters: Staff for the Crash Data Group
Houston, TX (02/24)

PC Crash Video Analysis Using Version 15.0 (3 hours)

Presenters: Andreas Moser and Bradley Heinrichs
Zoom Webinar (09/24)

RECON-3D Certificate Course (4 hours)

Presenter: Eugene Liscio
Zoom Class (09/24)

SATAI Fall Conference: Bosch CDR & Toyota Techstream Update, Use of Recon-3D for Scene and Vehicle Documentation & Rotational Mechanics (12 hours)

Presenters: Brad Muir, Daniel Vomhoff III & John Daily
Glendale, AZ (10/24)

PC-CRASH Webinar – Best Practices (3 hours)

Presenters: Andreas Moser and Bradley Heinrichs
Zoom Webinar (01/25)

PhotoModeler for Collision Investigation (40 hours)

Instructor: Dan Mills
Zoom Class (01/25)

2025 Symposium on EDR Research and Training (24 hours)

Presenters: Multiple
Newport Beach, CA (04/25)

Advanced Photogrammetry for Collision Reconstruction (40 hours)

Instructor: Louis R. Peck PE, Lightpoint
Online Course (05/25)

Part 107 Small UAS Recurrent ALC-677 Recertification Course (3 hours)

Instructor: www.faasafety.gov
Online Course (11/25)

Video and EDR in PC-Crash (3 hours)

Presenters: Andreas Moser and Bradley Heinrichs
Online Webinar (04/26)

Recon-3D User Group Meeting (5 hours)

Presenters: Multiple
Online Webinar (04/26)

Formal Testing

Skid testing with trash trucks and motorcycles.

Miramar College, San Diego, CA
San Diego Police Department (04/94)

Low speed crash testing with passenger vehicles.

Ben Clark Training Center, Riverside, CA
Riverside County Sheriff's Department (10/00)

Skid tests/acceleration tests with police car, police motorcycles, and a fire truck.

Arrowhead Pond of Anaheim, Anaheim, CA
Orange County Sheriff's Department (07/01)

Skid tests using locking and anti-locking brakes on cars and motorcycles.

Irwindale Speedway, Irwindale, CA
California Highway Patrol Southern M.A.I.T. (06/03)

Acceleration and braking tests using a Vericom VC2000 and VC3000PC.

Cable Airport, Upland, CA
Richard A. Jobe, Vericom Computers, Inc. (10/04)

Skid tests, acceleration tests and crash tests with motorcycles.

Institute of Police Technology & Management
Phoenix Club Drive South, Anaheim, CA (03/05)

Participated in two formal crash tests with MEA Forensic. MEA Engineers went over results of each test and provided additional training on the topics of rollover crashes and tire separation.

Laguna Hills, CA (04/09)

Participated in several crash tests with MEA Forensic. I personally was the driver in three of the crash tests. (Head-on, rear-end and sideswipe)

Laguna Hills, CA (07/09)

Participated in several crash tests with MEA Forensic. The tests involved vehicle vs. bicyclist collisions, and a vehicle vs. vehicle broadside collision.

Laguna Hills, CA (08/10)

Conspicuity testing for a vehicle vs. pedestrian nighttime major injury collision.

Involved a pedestrian who walked into traffic and was struck by a DUI driver in a Toyota Avalon. (02/11)

Participated in two crash tests with MEA Forensic. The tests involved two low speed rear-end collisions. (A pickup into the rear of a sedan.)

Laguna Hills, CA (11/11)

Participated in two SUV rollover crash tests at the Karco Facility with MEA Forensic.

Adelanto, CA (01/14)

Participated in several crash tests with MEA Forensic. The test involved an SUV and a passenger vehicle.

Laguna Hills, CA (12/14)

Participated in a formal nighttime pedestrian visibility study with MEA Forensic. The test consisted of pedestrians in light and dark clothing and their detection from a passenger vehicle and SUV using luminance meters.

Irvine, CA (05/15)

Conspicuity testing for a vehicle vs. pedestrian nighttime fatal collision.

Involved two pedestrians who were struck while crossing in front of a Mazda 3 being driven with only its daytime running lights. (05/15)

Observed a crash test performed by MEA Forensic. The test involved a rear end collision involving a Honda Accord into a Ford Ranger, which was pushed into a Ford Expedition.

Laguna Hills, CA (05/16)

Skid tests, acceleration tests and crash tests with a BMW police motorcycle.

Institute of Police Technology & Management
Pomona, CA (05/16)

Participated in a vehicle crash test with MEA Forensic. The collision involved a broadside collision using two pickup trucks.
Irvine, CA (11/16)

Observed braking tests performed by MEA Forensic. Vehicles involved: 1997 Ford Expedition, 2004 Mitsubishi Montero & 2006 Nissan Pathfinder. Cumulatively over 30 braking tests with and without ABS at 50 MPH were performed.
Irvine, CA (12/16)

Participated and observed SUV rollover crash testing performed by MEA Forensic. The vehicles involved: 1997 Ford Expedition, 2004 Mitsubishi Montero & 2006 Nissan Pathfinder. (SAE Papers 2019-01-0417 & 2020-01-0642)
Irvine, CA (01/17)

Participated and observed in a SUV rollover crash test performed by MEA Forensic. The vehicle involved was a 2006 Nissan pathfinder. (SAE Paper 2019-01-0417)
Irvine, CA (03/17)

Participated in Toyota Vehicle Control History testing with MEA Forensic as a driver. Testing involved lateral and longitudinal acceleration, braking, and various vehicle movements. Testing also included Toyota vehicle movements which were recorded and compared to the Toyota Techstream. Vehicles used in the various tests included a Volvo S60, Dodge Charger, Nissan Altima and various Toyota Corollas.
Irvine, CA (04/18)

Conspicuity testing for a vehicle vs. pedestrian nighttime fatal collision.

Involved a Toyota Sienna minivan & a pedestrian crossing in a marked crosswalk at a signal-controlled intersection. (05/17)

Conspicuity testing for a vehicle vs. pedestrian nighttime fatal collision.

Involved two pedestrians & two dogs who were struck while crossing in an unmarked crosswalk in front of a Honda Accord Hybrid being driven by a DUI driver. (05/18)

Conspicuity testing for a vehicle vs. bicyclist nighttime fatal collision.

Involved a Jeep Grand Cherokee which rear-ended a road bicyclist. (06/19)

Conducted tire friction mark testing with a 2010 Ford Crown Victoria. Testing included depositing critical speed scuffs, acceleration marks, ABS braking marks & non-ABS locked wheel tire friction marks. The tire marks were examined and the differences compared. Effective drag factors were also calculated using a Vericom VC4000PC. (08/19)

Has conducted several informal acceleration, deceleration and skid tests: Has involved a variety of vehicles, related to major injury and fatal traffic collision investigations, for the Irvine Police Department and several other law enforcement agencies in Orange County, CA. (1994-2019)

Conducted brake testing using a Vericom VC4000PC, V-Sense and RaceLogic VBOX. Tests were conducted with Police and Civilian models of the Ford Explorer with new and used brake pads. The purpose of the testing was to compare the efficiency of new and used brake pads with one another as well as compare the data collected by all three instruments. (06/21)

Participated in vehicle skid testing with MEA Forensic. The vehicles tested were a 2019 Chevrolet Malibu, 2017 Freightliner (M2) 35 passenger bus and a 2019 Dodge 5500 tow truck. An RTK, VBOX Sport and Vericom V-Sense 5000 was used to collect data. (01/22)

Observed multiple crash tests presented at WREX 2023

Crash tests consisted of passenger vehicles, pickups, school bus, bobtails and motorcycles. Orlando, FL (04/23)

Instruction & Lecture

Part-Time Faculty Instructor for Coast Community College District. Instructs & facilitates at the Golden West Regional Criminal Justice Training Center, Regular Basic Police Academy, located at Golden West College in Huntington Beach, CA. Has instructed **Intro to Criminal Law** and currently instructs **Traffic Enforcement, DUI Investigations/Arrests & Traffic Control**. (05/22 – Present) Classes 167 through 176

Presented for the Newport Harbor Bar Association. The presentation was a case study of a 1st Degree Murder and Hit & Run case. (05/26)

Presented for the Southern California Traffic Investigators Association (SOCTIA). The topic was an overview of **Accident Investigations & Reconstruction, The Use of Expert Witnesses, The Use of Spreadsheets to Calculate EDR Data and Blood Alcohol Levels**. (08/25)

Presented for the Newport Harbor Bar Association. The topic was **Accident Reconstruction and the Proper Use of an Expert**. (05/25)

Presented for the Newport Harbor Bar Association. Conducted an alcohol **“Wet Lab”** and demonstrated the proper application of standardized field sobriety tests including the Horizontal Gaze Nystagmus, the One Leg Stand and the Walk & Turn. (04/24)

Regularly guest lectures at Western State College of Law, for the Criminal Law Externship program. Presented on the topics of **Introduction to Collision Reconstruction, The Use of Expert Witnesses and Legal Issues** as well as went over collision case studies. (04/19) (03/20) (09/20) (04/21) (11/21) (03/22) (10/22) (04/23) (11/23) (02/24) (09/24) (02/25) (09/25) (02/26)

Presented at the Society of Automotive Engineering International’s inaugural Accident Reconstruction Digital Summit which was broadcasted live internationally. Presentation topic was **What Data and Evidence First Responders Should Collect and Consider in the First 48 Hours**. (03/22)

Presented on the topic of **Traffic Collision Reconstruction: Investigative Responsibilities and Prosecution Considerations** at the annual Los Angeles County DA’s Homicide College at the LADA’s headquarters in downtown Los Angeles. (10/20)

Lectured at the Los Angeles County District Attorney’s Office Regional Roundtable. Provided a presentation called **“Utilizing Evidence from the Defense”** in which a case study was presented explaining how a defense expert’s report in a murder case was used to the prosecution’s advantage and disarmed the defense resulting in a conviction. (09/19)

Presented at the California Traffic Safety Resource Prosecutor’s “Traffic College” at the Fowler School of Law at Chapman University in Orange, CA. Lectured on **Investigative Considerations: Vehicular Homicide Scene Response, Watson Murders & Collision Reconstruction**. (07/19)

Presented at the California Traffic Safety Resource Prosecutor’s “Traffic College” at the California Highway Patrol Academy in Sacramento. Lectured on **Collision Reconstruction** to prosecutors and law enforcement. (03/19)

Presented at the California Traffic Safety Resource Prosecutor’s “Traffic College” at the Fowler School of Law at Chapman University in Orange, CA. Taught **Collision Reconstruction Primer** to prosecutors and law enforcement. (07/18)

Taught a 40-hour class on the use of **Forensic Mapping in Traffic Collision Reconstruction** to Irvine Police M.A.I.T. personnel. (05/18)

Lectured on **Vehicle Homicide Investigations** at the 1st annual LA County DA’s Homicide College at the LADA’s headquarters in downtown Los Angeles. (04/18)

Presented at the California Traffic Safety Resource Prosecutor's "Traffic College" at the CHP Academy in Sacramento. Taught **Collision Reconstruction Primer** to prosecutors and law enforcement. (03/18)

Taught a 3-day (24-hour) class in the use of **Autodesk's Autosketch** for the use of crash and crime scene diagrams. (12/17)

Presented at the Traffic Safety Resource Prosecutor's "Traffic College" at the Fowler School of Law located at Chapman University in Orange. The topic was **Introduction to Collision Reconstruction** and the attendees consisted of prosecutors from various jurisdictions within California. (06/17)

Taught **Traffic Accident Reconstruction** in the **Basic Applied Forensic Science and Crime Analysis Certificate Program** at the California State University, Long Beach. (2003-2009)

Taught **Collision Investigation and Reconstruction** at the **Chinese Criminal Police University (CCPU)** in Shenyang, China. Now known as the **National Police University of China**. (06/07)

Taught and prepared curriculum for a ten and twenty-hour **Basic Traffic Collision Investigation** class to all new police officers hired at the Irvine Police Department. (2000-2019)

TV and Media Consulting

USA TODAY: "Why 'overlooked' clues from Tiger Woods crash in 2021 Matter now." April 3rd, 2026

ABC10 News, San Diego, CA: Interviewed by TV reporter Michael Chen reference a fatal Tesla crash on the I-805 involving a motorcycle. July 2, 2025

Audiochuk's Crime Junkie Podcast: Interviewed by Investigative Reporter Nicole Pelletiere reference the Bryan Kohberger case. June 14th, 2025

New York Magazine: Interviewed for upcoming story about Ashton v. Mavis Tire stemming from the Schoharie, NY limousine crash which killed 20. April 5th, 2025

NPR: Interviewed by Investigative Reporter Lauryn Higgins for "Lincoln police officers endure sexual misconduct for years. They say the culture isn't fixed." March 19th 2025

CBS News, Austin, TX: Interviewed by TV Reporter Michael Adkison reference a hit & run fatal crash during a police pursuit which occurred at the 2024 South by Southwest Music Festival. March 14th, 2024

Californie: Dangers à Hollywood (Hell on Wheels): Appeared throughout a French documentary film about the dangerous roads of California. RMC Films/Productions aired on RMC Découverte December 2nd, 2023

ABC7 News, Los Angeles: Fatal crash involving Daniel Patrick Lenihan who struck a family on a sidewalk killing an 11-month-old child. April 3rd, 2023

Associated Press: *"Voice from the grave haunts Ronald Green's deadly arrest."* March 30th, 2022

New York Magazine: Follow up interview for an investigative journalism article about the Schoharie, NY limousine crash which killed 20 people. January 17-30, 2022 Edition October 12th, 2021

Seoul Broadcasting System - Unanswered Questions: Consulted reference an episode about a 2019 Ford Mustang convertible crashing into a stone wall with occupant ejections. August 31st, 2021

San Francisco Chronicle: *"A Piedmont wealth manager who allegedly left his wife and a dying man at the scene of a hit-and-run faces manslaughter charge."* July 7th, 2021

New York Magazine: Interviewed for an investigative journalism article about the Schoharie, NY limousine crash which killed 20 people. June 23th, 2021

Seoul Broadcasting System - Unanswered Questions: Interviewed by a South Korean reporter for a TV show episode involving a crash which occurred in Seoul, South Korea. June 4th, 2021

CBS - Inside Edition: Interviewed about the Aiden Leos road rage/shooting investigation. May 28th, 2021

Star Magazine: *"The Truth About Tiger's Crash."* April 26th, 2021

USA Today: *"Conclusions are misguided: Tiger Woods crash investigation criticized by forensic experts."* April 10th, 2021

USA Today: *"Collision report reveals Tiger Woods' confusion, low blood pressure in Southern California crash."* April 8th, 2021

Newsmax TV: Interviewed by Rachel Rollar on the New York based morning cable show *"Wake Up America"* reference the Tiger Woods crash findings. April 8th, 2021

Associated Press: <i>"Tiger Woods was driving more than 80 mph when he crashed SUV."</i>	April 7 th , 2021
USA Today: <i>"Tiger Woods driving more than 82 mph before crash, unclear if he was conscious, sheriff says."</i>	April 7 th , 2021
USA Today: <i>"Tiger Woods crash is complete, but sheriff says he needs Woods' permission to release report."</i>	March 31 st , 2021
USA Today: <i>"L.A. County sheriff talks about 'lesson learned' after Tiger woods crash."</i>	March 17 th , 2021
NewsmaxTV: Interviewed by Rachel Rollar on the New York based morning cable show <i>"Wake Up America"</i> reference the Tiger Woods case.	March 16 th , 2021
USA TODAY: <i>"Sheriff department's investigation into Tiger Woods crash scrutinized."</i>	March 13 th , 2021
FOX News: <i>"LA teen likely driving Lamborghini double the speed limit in crash that killed woman, expert says."</i>	March 12 th , 2021
USA TODAY: <i>"Tiger Woods' history with Ambien, details of latest car crash raise questions."</i>	March 7 th , 2021
USA TODAY: <i>"Tiger Woods told deputies after car crash he did not remember driving."</i>	March 5 th , 2021
USA TODAY: <i>"Sheriff executes search warrant for black box from Tiger Woods' crashed car."</i>	March 3 rd , 2021
CBS - Inside Edition: Follow-up interview to the Tiger Woods' car crash.	March 1 st , 2021
USA TODAY: <i>"Could Tiger Woods have been asleep at the wheel before crash? Forensic experts weight in."</i>	February 28 th , 2021
CBS - Inside Edition: Interviewed about the Tiger Woods' car crash.	February 24 th , 2021

Associations

SAE (Society of Automotive Engineers) International	2001-Present
Southwestern Association of Technical Accident Investigators (S.A.T.A.I.)	2001-Present

Southern California Traffic Investigators Association (Formally OCTIA)	2008-2019
National Association of Professional Accident Reconstruction Specialists	2023-Present
Law Enforcement Accident Reconstruction Network (LEARN)	2024-Present
California Association of Accident Reconstruction Specialists (CA ² RS)	2002-2004 2015-2024

Awards & Recognition

“Lifetime Achievement” Award from the Orange County Traffic Officers Association	2021
“Outstanding Support and Service” Award from the Los Angeles County District Attorney’s Office’s DTAPS	2019
Irvine Police Department “Unit Commendation” Award for Traffic	2014
Irvine Police Department “Police Officer of the Year” Award	2010
<ul style="list-style-type: none"> • California State Assembly Certificate of Recognition – Assemblyman Donald Wagner • California State Senate Certificate of Recognition – Senator Tom Harmon • California State Senate Award of Merit – Senator Tom Harmon • California State Senate Certificate of Recognition – Senator Mimi Walters 	
The American Legion, District 29, Law & Order Award of Merit	2010
<ul style="list-style-type: none"> • California Assembly Certificate of Recognition – Assemblyman Jeff Miller • California Assembly Award of Merit – Assemblyman Curt Hagman 	
MADD Individual Diamond Service Award	2009
MADD “Excellence in Investigations” Award	2008
<ul style="list-style-type: none"> • California State Assembly Certificate of Recognition – Assemblyman Jim Silva 	
Irvine Police Department “Meritorious Service” Award	2007
<ul style="list-style-type: none"> • County of Orange Certificate of Recognition – Supervisor Bill Campbell • California State Assembly Certificate of Recognition – Assemblyman Chuck DeVore • California State Senate Certificate of Recognition – Senators Dick Ackerman & Tom Harman • U.S. House of Representatives Recognition – Congressman John Campbell 	
Mothers Against Drunk Drivers (MADD) DUI Arrest Award	1992

Mothers Against Drunk Drivers (MADD) DUI Arrest Award	1991
Golden West Police Academy "Honor Recruit Award" (#1 Graduate)	1989
Golden West Police Academy "Report Writing Award"	1989
Golden West Police Academy "Academic Award"	1989

NOT FOR DISCLOSURE - NOT RETAINED