

MICHAEL A. MIRANDA
CURRICULUM VITAE

EDUCATION

- University of Southern Colorado 1976 to 1978
Studied Chemistry
Pueblo, Colorado
- Colorado State Patrol Basic Academy 1979
Golden, Colorado
- Pikes Peak Community College 1999
AAS Criminal Justice
Colorado Springs, Colorado

PROFESSIONAL EXPERIENCE

- Mj Traffic Accident Reconstruction, LLC 2008 to present
Owner/Accident Reconstructionist/Expert Witness
- National Safety Council (Southeastern Chapter) 2022 to 2023
Alive @ 25 Instructor
- National Safety Council (Northern New England Chapter) 2018 to 2021
Alive @ 25 Instructor
- Office of the District Attorney 2008 to 2009
Fourth Judicial District and
Criminal Investigator 2010 to 2011
Vehicular Homicide / Vehicular Assault Response Team
Grand Jury Investigator
- Colorado State Patrol 1979 to 2008
Trooper/Accident Reconstructionist/ART member
- United States Naval Reserve 1995 to 1999
Master-at-Arms (MA2)
Petty Officer Second Class (PO2)
Command Investigator and Instructor
- Pikes Peak Community College 2004 to 2007
Law Enforcement Training Academy
Colorado Springs, Colorado
Basic Academy Instructor:
Accident Investigation
- Colorado State Patrol Academy 1995 to 2001
Golden, Colorado
Basic Academy Evaluator
Accident Investigation
Auto-Pedestrian Instructor for Level III courses

- Colorado Sheriff's Training Academy
Highlands Ranch, Colorado
Instructor:
Accident Investigation
Motor Vehicle Law
DUI Enforcement

1997 to 1998
- City College of Colorado Springs
Colorado Springs, Colorado
Instructor:
Accident Investigation
Motor Vehicle Law
DUI Enforcement

1995 to 1997
- Trinidad State Junior College
Colorado Law Enforcement Basic Training Academy
Trinidad, Colorado
Instructor:
Accident Investigation
Motor Vehicle Law
DUI Enforcement

1984 to 1990
- Colorado Mountain College
Colorado Law Enforcement Basic Training Academy
Glenwood Springs, Colorado
Instructor:
Accident Investigation
Motor Vehicle Law
DUI Enforcement

1987 to 1989

PRESENTATIONS

- World Reconstruction Exposition (WREX)
Presentation and Support Staff Member

2023
- Professional Private Investigators Association of Colorado
Basic Accident Photography Techniques

2021
- Maine Licensed Private Investigator's Association (MLPIA)
Accident Investigations for Private Investigators

2019
- Accident Investigations for Private Investigators & Attorneys
Instructor

2017
- Rocky Mountain Private Investigators Conference
Guest Speaker
Basic Accident Investigations for Private Investigators

2014
- 4th Judicial District Mock Trial
Accident Reconstruction Guest Speaker

2014
- Professional Private Investigators Association of Colorado Conference
Accident Reconstruction Guest Speaker

2012 & 2014
- Accident Investigation for Attorneys
Continental Divide Bar Association ~ Guest Speaker

2012

- Various State Law Enforcement Academies and Departments
Guest Speaker and Instructor 1979 to 2008
- El Paso County Medical Society
Child Death Review Board
Guest Speaker 2000
- University of Colorado at Colorado Springs
Forensic Anthropology Department
Forensic Sciences Guest Speaker 2001 to 2002
- El Paso County District Attorney's Office
Accident Investigation for the Prosecuting Attorney 2009
- Regis University-Colorado Springs, Colorado
Guest Speaker – Accident Investigation / Criminal Investigations 2009
- Accident Investigation for Attorneys
Jefferson County Office of the Public Defender 2010
- El Paso County District Attorney's Office
Accident Investigation for the Prosecuting Attorney 2008 & 2011

TRAINING

- Level I On-Scene Accident Course
Colorado State Patrol Academy 1979
- DUI Enforcement Training
Colorado Division of Highway Safety 1980
- Advanced DUI Enforcement Training
Colorado Division of Highway Safety 1980
- Level II Accident Investigation Course (NUTI)
Colorado State Patrol Academy 1981
- Technical Truck Accident Investigation (RMITS)
Colorado State Patrol Academy 1985
- Horizontal Gaze Nystagmus (HGN)
DUI Enforcement Course
Colorado Division of Highway Safety 1985
- Instructor Alcohol Testing Procedures
Intoxilyzer Model 5000
Colorado Department of Health 1987
- Level III Accident Reconstruction Course (IPTM)
Colorado State Patrol Academy 1988
- Motorcycle Accident Reconstruction (RMITS)
Colorado State Patrol Academy 1990
- Level IV Computer-Aided Accident Reconstruction
Colorado State Patrol Academy 1994
- Vehicle Occupant Kinematics (Co-Instructor)
Colorado Springs, CO 1998

- Level IV Computer-Aided Computer Program Up-Date
Colorado State Patrol Academy 2000
- Laser Measuring Device and Mapping (LTI)
Colorado State Patrol Academy 2000
- Motorcycle Dynamics (Kawasaki Corporation)
Colorado State Patrol Academy 2000
- SOKKIA Basics of the Total Station (SOKKIA)
Colorado Springs, Colorado 2000
- Blood Stain Interpretation
Pueblo Police Department 2001
- Event Data Recorder Orientation (EDR)
C.S.P. and CalSPAN / NHTSA
Golden, Colorado 2001
- Colorado State Patrol Accident Reconstruction Team
(A.R.T.) In-Service
Golden, Colorado 2001
- Railroad Crossing Collision Investigation (BNSF RR)
Colorado Springs, Colorado 2001
- Introduction to Instruction
Colorado State Patrol Academy
Golden, Colorado 2002
- Vehicle Occupant Kinematics (Instructor)
Colorado State Patrol District II Technical Accident Investigation Team
Colorado State Patrol Accident Reconstruction Team 2002
- CSP Tire Analysis
Colorado State Patrol Academy and Society of Automotive Engineers 2003
- Operator Trainer Intoxilyzer Model 5000EN
Colorado Department of Public Health and Environment 2004
- Interview and Interrogation Techniques
Midwest Counterdrug Training Center 2005
- Technological Applications of 360-degree Momentum
In Collision Reconstruction
Colorado State Patrol and Department of Justice National
Law Enforcement and Corrections Training Center (NLECT) 2005
- Drugs That Impair Driving Course
Colorado Department of Transportation Safety and Engineering Branch 2006
- Applied Physics for Accident Reconstruction
Colorado State Patrol Academy 2007
- NHTSA Standard Field Sobriety Testing (SFST)
Re-Certification Course
Traffic Forensic, LLC. 2009
- Vehicle versus Pedestrian Traffic Crash Investigation (Instructor)
Fountain Police Department 2010

Stalking and the Use of Technology Colorado District Attorney's Counsel- EVAW	2011
Basic & Advanced Identity Theft Investigation Central Mountain Training Foundation	2011
10-Print Examiner Training Course 4th Judicial District Attorney's Office	2011
ARAS360 HD Animation ARAS360/Colorado Springs, Colorado	2014
Crash Data Retrieval Technician Level I & II Collision Safety Institute Parker, Colorado	2014
Basic Death Investigation University of North Dakota	2015
Motorcycle Accident Reconstruction Accident Investigation and Reconstruction Specialists, Inc. (AIRS) Boulder, CO	2015
Crush Measurement and Analysis for Accident Reconstruction Texas Association of Accident Reconstruction Specialists (TAARS) Dallas, Texas	2017
Traffic Collision Technology Webinar Laser Technology, Inc.	2018
The Dos and Don'ts of Mapping: Time & Life Saving Tips Webinar Laser Technology, Inc.	2019
Drone Mapping: Ground and Aerial Measurements Webinar Laser Technology, Inc.	2019
Diagramming 101: FaroZone and IMS Map 360 Webinar Laser Technology, Inc	2019
Human Factors in Transportation Safety Rimkus Consulting Group, Inc.	2019
Bicycle Accident Reconstruction Rimkus Consulting Group, Inc.	2019
Human Biomechanics in Low-Speed Collisions Rimkus Consulting Group, Inc.	2019
Response and Understanding a Death Scene Death Investigation Training Academy	2020
Human Factors Series Crash Safety Solutions, LLC.	2020
Biomechanical Analysis of Head Injuries from Vehicle Accidents Rimkus Consulting Group, Inc.	2021
Accident Reconstruction Technology: Commercial Vehicle Rimkus Consulting Group, Inc.	2021

- Accident Reconstruction Digital Summit 2022
Society of Automotive Engineers (SAE)
- Driver Distraction from Cell Phones 2022
Rimkus Consulting Group, Inc.
- Traffic Crash Investigations and Reconstruction Resources 2022
National Association of Professional Accident Reconstruction Specialists (NAPARS)
- Momentum Refresher 2022
National Association of Professional Accident Reconstruction Specialists (NAPARS)
- Spin Analysis 2022
National Association of Professional Accident Reconstruction Specialists (NAPARS)
- Crash Reconstruction Equations and Derivations 2022
National Association of Professional Accident Reconstruction Specialists (NAPARS)
- The EDR and the Trailer Hitch 2023
National Association of Professional Accident Reconstruction Specialists (NAPARS)
- Accident Reconstruction Digital Summit 2023
Society of Automotive Engineers (SAE)
- Human Factors in Crash Reconstruction 2023
National Association of Professional Accident Reconstruction Specialists (NAPARS)
- Introduction to Video Analysis for Crash Reconstruction 2023
National Association of Professional Accident Reconstruction Specialists (NAPARS)
- Micro-Mobility Accident Investigation and Reconstruction 2023
Rimkus Consulting Group
- Analyzing Damage and EDR Data 2023
Rimkus Consulting Group
- A.D.A.S. and Accident Reconstruction 2023
National Association of Professional Accident Reconstruction Specialists (NAPARS)
- Monte Carlo & Excel 2023
National Association of Professional Accident Reconstruction Specialists (NAPARS)
- A Systematic Approach to Nighttime Crash Scene Investigations 2024
National Association of Professional Accident Reconstruction Specialists (NAPARS)
- Accident Reconstruction Digital Summit 2024
Society of Automotive Engineers (SAE)
- Critical Speed Yaw Analysis 2024
National Association of Professional Accident Reconstruction Specialists (NAPARS)
- ATV Crash Analysis 2024
National Association of Professional Accident Reconstruction Specialists (NAPARS)
- ECMs and Airbag Modules 2024
Rimkus Consulting Group
- Counterfeit Airbags 2024
National Association of Professional Accident Reconstruction Specialists (NAPARS)

- Body Language for Experts 2024
National Association of Professional Accident Reconstruction Specialists (NAPARS)
- Human Biomechanics in Low-Speed Vehicle Collisions and Seat Belt Investigations 2025
Rimkus Consulting Group

TECHNICAL CONFERENCE AND SEMINARS /RESEARCH

- The Institute of Traffic Accident Investigators (ITAI) 'Crash Day' 2025
Darley Moor, Derbyshire, United Kingdom
- World Reconstruction Exposition (WREX 2023) 2023
Orlando, Florida
- Accident Reconstruction Digital Summit 2022
SAE International
- Florida Association of Private Investigators, Inc. 2021
Virtual Conference
- Texas Association of Accident Reconstruction Specialists (TAARS) 2020
Virtual Conference
- National Association of Professional Accident Reconstruction Specialists (NAPARS)
Virtual Conference 2020
- 68th Maine Transportation Conference 2018
Maine Better Transportation Association
Augusta, Maine
- New York Statewide Traffic Accident Reconstruction Society (NYSTARS) 2018
Joint Conference: Pedestrian Collision Reconstruction
Lake George, New York
- Rocky Mountain Private Investigators Conference 2014
Professional Private Investigators Association of Colorado (PPIAC)
Black Hawk, Colorado
- Special Problems in Traffic Crash Reconstruction 2014
IPTM/University of Northern Florida
St. Pete Beach, Florida
- ARC-CSI Crash Conference 2010
Las Vegas, Nevada
- University of Colorado at Colorado Springs 2001
Symposium in Forensic Sciences
Speaker – Forensic Science in Traffic Accident Investigations
- University of Colorado at Colorado Springs 2001
Symposium in Forensic Sciences
- Rocky Mountain Crash / DUI Conference (CSU / RMITS) 2001
Denver, Colorado
- Forensics Seminar (UCCS) 2000
Colorado Springs, Colorado

- World Accident Reconstruction Exposition (WREX 2000) 2000
Texas A & M
College Station, Texas
- Bus Systems and Failure Analysis 2000
National Transportation Safety Board and
Colorado State Patrol Accident Reconstruction Team
- Motor Vehicle Crash Reconstruction Conference (CSU / RMITS) 2000
Denver, Colorado
- Auto / Pedestrian Accident Research 2000
On-going
- Vehicular Homicide / DUI Conference (NUTI) 1999
Chicago, Illinois
- Staged Accident and Insurance Fraud (NICB) 1998
Colorado State Patrol District 2 Technical Accident Investigation Team
- Auto / Pedestrian Accident Testing 1998
Colorado State Patrol District 2 Technical Accident Investigation Team
- VC – 2000 Performance Computer Skid Testing Evaluations 1991
Colorado State Patrol District 2 Technical Accident Investigation Team
- Vehicle Lamp Examination and Testing 1986
Colorado State Patrol District 2 Technical Accident Investigation Team
- Special Vehicle Skid Test and Drag Factor Conversion Factors 1983
Colorado State Patrol District 2 Technical Accident Investigation Team

CURRENT CERTIFICATIONS AND PROFESIONAL AFFILIATIONS

- ACTAR Accredited # 1084
- National Association of Professional Accident Reconstruction Specialists (NAPARS # 32171)
- Society of Accident Reconstructionist (S.O.A.R.)
Reconstructionist Affiliation
ACTAR BOD Alternate
- International Network of Collision Reconstructionist (INCR)
- South Carolina Accident Reconstruction Specialists (SCARS)
- Peace Officers' Standards of Training (P.O.S.T.)
Instructor Certification # 086014

PAST CERTIFICATIONS AND PROFESIONAL AFFILIATIONS

- National Association of Traffic Accident Reconstructionist and Investigators (NATARI # 645)
- Licensed Colorado Private Investigator
(Colorado License #: PI2-0091)

- Licensed Private Investigator
(Colorado License #: PI-519 ~ voluntary licensure)
(New Mexico License #: 44073)
- Professional Private Investigators Association of Colorado (PPIAC)
Senior Member: #1206
Board Member (2014 – 2016)
- National Council of Investigation and Security Services (NCISS)
- Traffic Accident Death Scene Investigator
Colorado Coroner's Association
- Colorado Coroner's Association
Associate Member
- Colorado State Patrol Accident Investigation Core
Committee Core
- Colorado State Patrol District 2 Technical Accident Investigation Team

EXPERT TESTIMONY AND ADVISORY WITNESS

- Advisory and expert witness to the District Attorney's Office in the following Colorado jurisdictions:
 - 4th, 6th, 11th and 16th Judicial Districts
- Testified as an expert in the field of Accident Reconstruction and Police Procedures in the following jurisdictions:
 - U.S. District Court
 - U.S. Military Court
 - 1st, 2nd, 3rd, 4th, 5th, 6th, 7th, 8th, 9th, 10th, 11th, 16th, 17th, 18th, 19th, 20th, 21st, and 23rd Judicial Districts
 - Valencia County, New Mexico
 - El Paso County, El Paso Texas
- Assisted as an Accident Reconstructionist and advisor to numerous agencies to include:
 - United States Army
 - United States Air Force
 - United States Navy
 - Local Law Enforcement Agencies

AWARDS AND COMMENDATIONS

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| • Colorado Springs Police Department Commander's Commendation | 2011 |
| • Colorado State Patrol Official Commendation | 2008 |
| • Colorado State Patrol Official Commendation | 2000 |
| • Colorado State Patrol Official Commendation | 1998 |
| • Colorado State Patrol Certificate of Merit | 1997 |
| • State of Colorado Governor's Office
"Local Hero" Award for DUI Enforcement and Education | 1997 |

- Numerous Colorado State Patrol Letters of Commendation

PROFESSIONAL PUBLICATIONS

- Accident Investigations for Private Investigators & Attorneys (2017). Publisher: Author.
- Miranda, M. (2017). Traffic Accident Investigations. [Blog] *PI Now Investigator Center*. Available at <https://www.pinow.com/articles/2348/traffic-accident-investigations> [Accessed 21 Aug. 2017].
- Miranda, M. (2017). Accident Investigations: Vehicle Lamp Examinations. [Blog] *PI Now Investigator Center*. Available at <https://www.pinow.com/articles/2349/accident-investigations-vehicle-lamp-examinations> [Accessed 18 Sept. 2017].
- Miranda, M. (2017). Accident Investigations: Tire Marks & Their Role in Accident Reconstruction Investigations. [Blog] *PI Now Investigator Center*. Available at https://www.pinow.com/articles/2399/tire-marks-their-role-in-accident-reconstruction-investigations?signup_code=roundup&mc_cid=e529a3b386&mc_eid=26530cbfa7 [Accessed 8 January 2018]
- Miranda, M. (2018). Accident Investigations: Determining Speed Using Drag Factors [Blog] *PI Now Investigator Center*. Available at https://www.pinow.com/articles/2484/accident-investigations-determining-speed-using-drag?signup_code=roundup [Accessed 6 August 2018]
- Miranda, M. (2018) Factors in Traffic Accident Investigations. [Blog] *PI Now Investigator Center*, Available at https://www.pinow.com/articles/2516/factors-in-traffic-accident-investigations?signup_code=roundup&mc_cid=8ec5a20a32&mc_eid=26530cbfa7 {Accessed 31 October 2018}
- Miranda, M. (2020) On Scene Photography for a Traffic Accident [Blog] *PI Now Investigator Center*, Available at https://www.pinow.com/articles/2928/on-scene-photography-for-a-traffic-accident?signup_code=roundup&mc_cid=36c3c81f55&mc_eid=26530cbfa7

MEDIA PRESENTATIONS

- Miranda, Michael (2019). Interviewed by Ashley Garcia. ATTORNEY AT LAW MAGAZINE. DENVER EDITION. <https://attorneyatlawmagazine.com/mike-miranda-mj-investigations>. 04/15/2019
- Miranda, Michael (2018). Interviewed by Francie Koehler. PI's Declassified. VOICE AMERICA TALK RADIO NETWORK. Internet Radio. <https://www.voiceamerica.com/episode/105962/pis-declassified-031518>

- Miranda, Michael (2017). Interviewed by Susanna Speier, Denver Private Investigator Blogger. ROSS INVESTIGATORS PC, INC. (<http://www.milehi-pi.com/blog/accident-reconstruction-colorado>) Accident investigation intensive for Colorado private investigators and attorneys. 3/5/2017

VOLUNTEER SERVICE

- ACTAR Board of Directors (2025 to present)
SOAR Alternate
- Parents of Murdered Children (POMC), Second Opinion Service (SOS) Investigator (2016 to present)
- Technical Advisor, ABC News 20/20 (2019 to present)
- Maine Department of Public Safety (2019 to 2021)
Bureau of Highway Safety
Teen Driver Safety Task Force
- National Safety Council (2018 to 2021)
Surviving an Active Shooter Instructor
- Drive Smart Colorado
Steering Committee Board Member
Guest Speaker
- SafeKids Coalition
Board Member
Guest Speaker
- Region IV Pre-Hospital Care Committee
Committee Member