

**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 present  
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 1997 to 1998  
Highlands Ranch, Colorado  
Instructor:  
Accident Investigation  
Motor Vehicle Law  
DUI Enforcement
- City College of Colorado Springs 1995 to 1997  
Colorado Springs, Colorado  
Instructor:  
Accident Investigation  
Motor Vehicle Law  
DUI Enforcement
- Trinidad State Junior College 1984 to 1990  
Colorado Law Enforcement Basic Training Academy  
Trinidad, Colorado  
Instructor:  
Accident Investigation  
Motor Vehicle Law  
DUI Enforcement
- Colorado Mountain College 1987 to 1989  
Colorado Law Enforcement Basic Training Academy  
Glenwood Springs, Colorado  
Instructor:  
Accident Investigation  
Motor Vehicle Law  
DUI Enforcement

## **PRESENTATIONS**

- World Reconstruction Exposition (WREX) 2023  
Presentation and Support Staff Member
- Professional Private Investigators Association of Colorado 2021  
Basic Accident Photography Techniques
- Maine Licensed Private Investigator's Association (MLPIA) 2019  
Accident Investigations for Private Investigators
- Accident Investigations for Private Investigators & Attorneys 2017  
Instructor
- Rocky Mountain Private Investigators Conference 2014  
Guest Speaker  
Basic Accident Investigations for Private Investigators
- 4<sup>th</sup> Judicial District Mock Trial 2014  
Accident Reconstruction Guest Speaker
- Professional Private Investigators Association of Colorado Conference 2012 & 2014  
Accident Reconstruction Guest Speaker
- Accident Investigation for Attorneys 2012  
Continental Divide Bar Association ~ Guest Speaker

- 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  
4<sup>th</sup> 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)

**TECHNICAL CONFERENCE AND SEMINARS /RESEARCH**

- 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) 2020  
Virtual Conference
- 68<sup>th</sup> 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 PROFESSIONAL AFFILIATIONS**

- ACTAR Accredited # 1084
- National Association of Professional Accident Reconstruction  
Specialists (NAPARS # 32171)

- Society of Accident Reconstructionist (S.O.A.R.)  
Reconstructionist Affiliation
- 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:
  - 4<sup>th</sup>, 6<sup>th</sup>, 11<sup>th</sup> and 16<sup>th</sup> Judicial Districts
- Testified as an expert in the field of Accident Reconstruction in the following jurisdictions:
  - U.S. District Court
  - U.S. Military Court
  - 1<sup>st</sup>, 2<sup>nd</sup>, 4<sup>th</sup>, 5<sup>th</sup>, 6<sup>th</sup>, 8<sup>th</sup>, 9<sup>th</sup>, 10<sup>th</sup>, 11<sup>th</sup>, 16<sup>th</sup>, 17<sup>th</sup>, 18<sup>th</sup>, 19<sup>th</sup>, and 20<sup>th</sup> 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

- 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](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](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](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](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**

- 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