

BENJAMIN T. MOLNAR

Managing Expert – Accident Reconstruction

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EDUCATION

BSME	BSME University of Colorado - Boulder, Colorado
	Bachelor of Science Degree in Mechanical Engineering

PROFESSIONAL CERTIFICATIONS

PE	Professional Engineer
	Mechanical, Registration Number M39944 (California)
	Mechanical, Registration Number 156812 (Texas)
ACTAR	Accreditation Commission for Traffic Accident Reconstructionists
	ACTAR #4055
CFVT	Law Enforcement and Emergency Services Video Association International, Inc.
	Certified Forensic Video Technician **(TEMP. EXPIRED AS OF 5/31/2025)**
PI	Private Investigator
	Texas Department of Public Safety License #171864201
RP	Federal Aviation Administration
	Certified Remote Pilot #4174947
CM1	Department of Motor Vehicles – State of California
	Class CM1 Driver's License

MEMBERSHIPS

Society of Automotive Engineers (SAE)

National Association of Professional Accident Reconstruction Specialists (NAPARS)

California Association of Accident Reconstruction Specialists (CA2RS)

Southwestern Association of Technical Accident Investigators (SATAI)

Law Enforcement and Emergency Services Video Association International, Inc. (LEVA)

Ambassador – PhotoModeler Technologies

Axon Investigate Innovators Group – Axon

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WORK EXPERIENCE

Nov 2023 – Present	Aperture, LLC – Southlake, Texas *Forensic Engineer*
Jan 2023 – Nov 2023	JS Held, LLC - Denver, Colorado *Engineer*
Jul 2018 – Jan 2023	Lightpoint Scientific | Axiom Forensic – Westlake Village, California *Product Engineer, Forensic Engineer, Forensic Photogrammetrist*
Jul 2016 – July 2018	WEXCO International Corporation (Aperture LLC) – Marina del Rey, California *Forensic Engineer*

COUNTINUING EDUCATION AND TRAINING

Jul 2025	*Advanced Heavy Vehicle Inspections* *Aperture LLC* *Southlake, Texas*
Mar 2025	*Conference (Crash Testing Only)* *Southwestern Association of Traffic Accident Investigators (SATAI)* *Glendale, Arizona*
Oct 2024	*Joint Conference* *National Association of Professional Accident Reconstruction Specialists (NAPARS)* *Online*
Feb 2024	*Annual Conference* *American Academy of Forensic Sciences (AAFS)* *Denver, Colorado*
Jan 2024	*Conference* *Southwestern Association of Traffic Accident Investigators (SATAI)* *Glendale, Arizona*
Apr 2023	*World Reconstruction Exposition (WREX 2023)* *Orlando, Florida*
Jul 2022	*Symposium on Traffic Safety* *Institute of Police Technology and Management (IPTM)* *Orlando, Florida*
Jun 2022	*Level 2: Digital Multimedia Evidence Processing (LEVA)* *Law Enforcement and Emergency Services Video Association International, Inc. (LEVA)* *Kansas City, Missouri*
Mar 2022	*Motorcycle Collision Reconstruction* *Lightpoint Scientific* *Online*
Feb 2022	*Conference* *Southwestern Association of Traffic Accident Investigators (SATAI)* *Glendale, Arizona*
Oct 2021	*Fall Conference* *California Association for Accident Reconstruction Specialists (CA2RS)* *South Lake Tahoe, California*

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Sep 2021	*Applying Automotive EDR Data to Traffic Crash Reconstruction* *Society of Automotive Engineers International (SAE International)* *Online*
Dec 2020	*Level 1: Forensic Video Analysis and the Law* *Law Enforcement and Emergency Services Video Association International, Inc. (LEVA)* *Online*
Nov 2020	*Overview of Collision Reconstruction/Investigation Using Crash Data Retrieval Event Data* *California Association for Accident Reconstruction Specialists (CA2RS)* *Online*
Oct 2020	*Traffic Crash Reconstruction I and II* *Northwestern University Center for Public Safety* *Gurnee, Illinois*
Oct 2020	*Joint Conference* *National Association of Professional Accident Reconstruction Specialists (NAPARS)* *Online*
Dec 2019	*Bosch CDR Tool Technician Training* *Institute of Police Technology and Management* *Online*
Aug 2019	*Virtual Crash: Use and Applications* *Virtual CRASH* *Van Nuys, California*
Jun 2019	*Utilizing Video Evidence in Traffic Investigations* *California Association for Accident Reconstruction Specialists (CA2RS)* *Fontana, California*
Feb 2019	*Advanced Photogrammetry for Collision Reconstruction* *Lightpoint Scientific* *Westlake Village, California*
Jun 2019	*Accident Reconstruction, the Autonomous Vehicle, and ADAS* *Society of Automotive Engineers International (SAE International)* *El Segundo, California*
Dec 2018	*Photography for Accident Reconstructionists, Product Liability, and Testing* *Society of Automotive Engineers International (SAE International)* *Oxnard, California*
Oct 2018	*Accessing and Interpreting Heavy Vehicle Event Data Recorders* *Society of Automotive Engineers International (SAE International)* *Oxnard, California*

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COURSES INSTRUCTED

Advanced Photogrammetry for Collision Reconstruction
Aperture LLC | PhotoModeler Technologies
2025

Advanced Photogrammetry for Collision Reconstruction
Lightpoint Scientific LLC
2022

Point Clouds in Collision Reconstruction – Speed from Video
Lightpoint Scientific LLC
2022

PRESENTATIONS

Video Analysis and Photogrammetry, Trucking Defense Advocacy Council (TDAC) Conference 2024, Fayetteville, Arkansas, September 2024.

Accident Reconstruction Overview, Carpenter Zuckerman, Beverly Hills, California, September 2024.

The Accuracy of Time Stamps on Surveillance Recording Devices, AAFS Conference 2024, Denver, Colorado, February 2024

Video Analysis in Collision Reconstruction, WREX 2023, Orlando, Florida, April 2023

Evaluation of Tesla Dashcam Video System for Speed Determination via Reverse Projection Photogrammetry, Society of Automotive Engineers International (SAE International) Accident Reconstruction Digital Summit, Online, April 2023

3D Scanning: Finding the Right Tool and Utilizing the Data, Institute for Police Technology and Management (IPTM) Conference, Orlando, Florida, July 2022

3D Scanning: Finding the Right Tool and Utilizing the Data, Southwestern Association for Traffic Accident Investigators (SATAI) Conference, Glendale, Arizona, February 2022

Elevating Collision Reconstruction Analyses with Laser Scanned Exemplars, Leica Geosystems Webinar, Online, September 2021

A Scientific Journey to the Truth, California Association of Licensed Investigators (CALI), Orange, California, July 2021

Using Exemplar Vehicle Point Clouds for Improved Collision Investigation and Reconstruction, Leica Geosystems Webinar, Online, June 2021

PUBLICATIONS

Molnar, B, Terpstra, T., Voitel, T., “Accuracy of Time Stamps in Digital and Network Video Recorders,” SAE Technical Paper, Society of Automotive Engineers International, Inc., Warrendale, PA, April 2025.

Molnar, B, Peck, L, “Evaluation of Tesla Dashcam Video System for Speed Determination via Reverse Projection Photogrammetry,” SAE Technical Paper 2023-01-0629, Society of Automotive Engineers International, Inc., Warrendale, PA, April 2023

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