Andrew S. Klane

Forensic Expert – Accident Reconstruction

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EDUCATION

ADCJ	Associates Degree in Criminal Justice Northeastern University, Boston, MA, 1988

EMPLOYMENT HISTORY

May 2024- Present	Aperture, LLC – Bridgewater, MA Forensic Expert, Collision Reconstructionist
Jan 2017- May 2024	Klane and Associates, Inc. – Mashpee, MA President, Collision Reconstructionist
1988 – 2017	Massachusetts State Police – Framingham, MA Collision Reconstructionist

PROFESSIONAL CERTIFICATIONS

Accredited by the Accreditation Commission for Traffic Accident Reconstruction. ACTAR #949

Certified Laser Scanner Operator – IAFSM

Federal Aviation Administration Remote Pilot sUAS Certification

Licensed Private Investigator – Commonwealth of Massachusetts #LP1541A

PROFESSIONAL AFFILIATIONS

National Association of Professional Accident Reconstruction Specialists (N.A.P.A.R.S)
Member, April 1993 to present

Society of Automotive Engineers (SAE)
Affiliate Member, February 1995 to present

International Association of Forensic & Security Metrology
Member, 2023 to present

SPECIALIZED EDUCATION

1988 – 1991 *Massachusetts State Police Academy: Framingham, MA*
Basic Accident Investigation. September 1988
Advanced Accident Investigation. March 1989
North American Standard Truck Inspection. October 1989
Hazardous Materials Enforcement. December 1989
Traffic Accident Reconstruction. September 1991

1992 – 2016 *Massachusetts State Police Academy: New Braintree, MA*
Accident Reconstruction In-service Training. 1992, 1993, 1994, 1995, 1996, 1997, 1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011,2012, 2013, 2014, 2015,2016
Northeast Collision Analysis, Insurance Fraud and other accident-related subjects. 1992.
Daytime/Nighttime Visibility, Perception and Reaction Time Course. October 1993.
Nikon Law Enforcement Photography. November 1993.
MA State Police & Governors Highway Safety Bureau

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Older Driver's Visual Behavior on the Highway. December 1994

1994 – 2000 *Texas A & M University Law Enforcement Training Division*
Pedestrian and Bicyclist Accident Reconstruction. August 1994
Biomechanics of Accidents. October 23-27, 1995
Low Speed Collision Analysis. November 30 – December 4, 1998
Advanced Scene Investigation Using Forensic Mapping and CAD. April 24-28, 2000

1994 – 2010 *IPTM University of North Florida*
Forensic Animation of Traffic Crashes. November 1994
Inspection and Investigation of Commercial Vehicle Accidents. September 11-15, 1995
Investigation of Motorcycle Accidents. September 18-22, 1995
Bus Accident Investigation. September 15-19, 1997
Advanced Traffic Crash Reconstruction with WINCRASH. December 18-21, 2000
Applied Physics for Traffic Crash Investigators. September 17-21, 2001
CDR Toolkit – User Certification Vetronix Crash Data Retrieval System. October 2-4, 2002
Special Problems in Traffic Crash Reconstruction. April 25-29, 2005
Pedestrian / Bicycle Crash Investigation. June 23-27, 2008
Motorcycle Crash Investigation. June 1-5, 2009
Inspection and Investigation of Commercial Vehicle Accidents. June 14-18, 2010

Nov. 2021 *Northwestern University – Center for Public Safety: Chattanooga, TN*
Heavy Vehicle Forensic Mechanical Inspection for Collision Investigators 40 hrs. Nov 8-21, 2021

Feb. 2019 *Commonwealth Transportation Consultants: Charlotte, NC*
Heavy Vehicle Event Data Recovery & Analysis 40 hrs. February 2019

Sept. 2020 *Forensic Training Group, LCC: Pleasant View, TN*
Heavy Truck Reconstruction Techniques, Master Series 24 hrs. September 2020

2009 – 2016 *Collision Safety Institute*
Crash Data Retrieval Analyst Course 32 Hrs. February 2009
Crash Data Retrieval Technician Course 8 Hrs. February 2009
Crash Data Retrieval Technician Course 8 Hrs. May 2010
Crash Data Retrieval Analyst Course 40 Hrs. January 2012
Crash Data Retrieval Analyst Course 40 Hrs. May 2014
Crash Data Retrieval Technician Course 8 Hrs. March 2016

2012 – 2024 *CDR Summit*
CDR Users Summit Houston Texas 2012, 2013, 2014, 2018, 2019, 2020, 2024

Feb. 2024 *Toyota Techstream: Houston, TX*
Toyota Techstream User's Course. February 7, 2024

Feb 2012 *Engineering Dynamics Corporation*
HVE Forum New Orleans, LA Feb 27-Mar 2, 2012

2017 – 2024 *Conferences*
IPTM - Symposium on Traffic Safety 2017,2018,2019,2021,2022
Tennessee Highway Patrol – Traffic Crash Investigation Conference June 2018
NAPARS Symposium on EDR Research and Training April 2024

2016 – 2017 *National Transportation Safety Board (NTSB) Training Center: Ashburn, VA*
Pix4D Mapper Software Training September 22-23, 2016
Aircraft Accident Investigation April 24-May 5, 2017

Dec. 1992 *Federal Bureau of Investigation: Boston, MA*
FBI Instructor Development. December 1992

Sept 1998 *Bureau of Alcohol, Tobacco, and Firearms: Franklin, MA*
Post Blast Investigation September 30 – October 1, 1998

July 1994 *IAARS (International Association of Accident Reconstruction Specialists)*
IAARS Seminar, Accident Reconstruction Related Subjects. S. Portland, ME. July 11-15, 1994

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2000 – 2005	*Vericom Computers: Boston, MA* Acceleration and VC2000PC Training, 2000 Acceleration and VC3000PC Training, 2005
2000 – 2007	*MicroDesk: Waltham, MA* AutoCad Training. June 19-23, 2000
May 2007	*Visual Statement: Kamloops, BC* Advanced Complex Animation and Simulation. May 2007
Dec. 2010	*American Traffic Safety Services Association (ATSSA): Worcester, MA* Traffic Control Technician – 12/13/2010 Traffic Control Supervisor – 12/14-15, 2010
Oct. 2022	*NAPARS (National Association of Professional Accident Reconstruction Specialists): Virtual* Conservation of Linear Momentum Update – 2 Hour Online instructor led training Oct. 28, 2022
Oct. 2024	*Virtual Crash: Newberry, FL* Virtual Crash 6 Training October 29-31, 2024
Sept. 2025	*PhotoModeler Technologies: Southlake, TX* Advanced Photogrammetry for Accident Reconstruction – September 17-18, 2025

TEACHING EXPERIENCE

Massachusetts State Police Academy: New Braintree, Massachusetts

Instructor for Recruit Training: At Scene Collision Investigation, Work Zone Safety

Instructor for In-service Training: Work Zone Safety

Massachusetts Criminal Justice Training Council: Various locations, Massachusetts

Instructor for Recruit Training: At Scene Collision Investigation

Instructor for Specialized Training: At Scene Collision Investigation

Massachusetts State Police: Collision Analysis & Reconstruction Section: Framingham, MA

Field Training Officer - Collision Analysis & Reconstruction

Instructor for Forensic Mapping

Certified Instructor for Leica IMS MAP360 Software

Suffolk Law School: Boston, MA

Guest speaker – Presenting expert witness testimony in the field of motor vehicle collision analysis and reconstruction

Massachusetts District Attorneys Association: Various locations, MA

Guest speaker – Collision Reconstruction Technology- College of the Holy Cross - Summer 2006

Presenter – Collision Reconstruction for Prosecutors Training – August 20, 2010

Presenter – Collision Reconstruction for Prosecutors Training – November 9, 2011

Alabama District Attorneys Association: Birmingham, Alabama

Guest speaker – Forensic Mapping of Collision Scenes - presented at the Alabama Prosecutorial Traffic Homicide Conference – September 30, 2021

Pix4D Photogrammetry Software

Certified Trainer 2017 to Present

Leica Map360 Software

Certified Trainer 2016 to Present

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Rutgers University Center for Advanced Infrastructure and Training: Piscataway, NJ
Adjunct Instructor – Forensic Mapping 2022-2024

Southwestern Association of Technical Accident Investigators (SATAI): Glendale, AZ
Spring 2025 SATAI Crash Conference. March 2025
Presenter – Photogrammetry for Crash Reconstruction
Member of crash crew – Participated in live crash tests

PROFESSIONAL DEVELOPMENT

Massachusetts State Police Academy: Babson University, Wellesley, MA
Risk Management for Law Enforcement. January 2016

Southwestern Association of Technical Accident Investigators (SATAI): Glendale, AZ
Spring 2025 SATAI Crash Conference. March 2025

PROFESSIONAL POSITIONS HELD

Accreditation Commission for Traffic Accident Reconstruction
Board Member, Governing Board of Directors 2015-2017

Commonwealth of Massachusetts Traffic Incident Management Task Force (TIM)
Massachusetts State Police Representative 2013-2017

Commonwealth of Massachusetts Traffic Records Coordinating Committee (TRCC)
Massachusetts State Police Representative – Executive Level 2014-2017

Commonwealth of Massachusetts Work Zone Safety Task Force
Massachusetts State Police Representative 2016

INVESTIGATION & RECONSTRUCTION EXPERIENCE

1992 – Jul. 2005	*Trooper assigned to the Massachusetts State Police Collision Analysis and Reconstruction Section*
Jul. 2005 – Sept. 2009	*Sergeant assigned as team leader for the southeast team* Perform day to day supervisory duties; Provide field supervision; Review and approve reconstruction reports; Provide technical assistance
Sept. 2009 – 2017	*Lieutenant assigned as Section Commander for the C.A.R.S.* Commanding Officer of the Collision Analysis & Reconstruction Section; Statewide unit consisting of 4 Sergeants and 20 Troopers. Investigated over 1,000 Collisions. Reconstructed over 700 Collisions.
2017 – May 2024	*Klane and Associates, Inc.* Reconstructed over 350 Collisions.
May 2024 – Present	*Aperture, LLC* Reconstructed over 125 Collisions.

EXPERT WITNESS

Has testified as an expert witness in Collision Analysis & Reconstruction in Massachusetts District and Superior Court, in Criminal & Civil Cases.

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