
CURRICULUM VITAE OF ANDREW W. THOMAS

Collision Analytics LLC
Owner / Principal Reconstructionist
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SUMMARY

Andrew W. Thomas, an ACTAR Accredited Traffic Crash Reconstructionist, specializes in motor vehicle crash investigation and reconstruction. With over 1,500 hours of specialized training in collision investigation and reconstruction, he serves as an adjunct instructor for Northwestern University's Center for Public Safety, teaching crash investigation and reconstruction across the U.S. and Canada. During his 15 years in law enforcement, Andrew led the McHenry County Sheriff's Office Major Crash Investigation Unit, handling major injury and fatal crash cases. An Illinois-certified Crash Reconstruction Specialist and instructor with expertise in Advanced Truck Enforcement, he also spent over three years as a full-time Commercial Vehicle Enforcement Officer and a decade as a motorcycle officer. As a Crash Data Retrieval technician and analyst, Andrew regularly incorporates light and heavy vehicle collision event data into his investigations.

PROFESSIONAL CERTIFICATIONS

ACTAR Accredited Traffic Crash Reconstructionist #2828

SINCE 2015 - Accreditation Commission for Traffic Accident Reconstruction

Crash Reconstruction Specialist #PTB10505

SINCE 2012 - Illinois Law Enforcement Training & Standards Board

Crash Data Retrieval Specialist

SINCE 2013 - Collision Safety Institute

Graduate of Northwestern University's Center for Public Safety

SINCE 2011 - Crash Investigation & Reconstruction Program

National Child Passenger Safety Seat Certified Technician

SINCE 2017 – SafeKids Worldwide

Pix4D Certified User and Photogrammetrist

SINCE 2020 – Pix4D

Certified Instructor – Advanced Truck Enforcement

SINCE 2013 - Illinois Law Enforcement Training & Standards Board

Heavy Vehicle Enforcement Officer & Portable Scale Use

SINCE 2008 - Illinois Law Enforcement Training & Standards Board

Certified Video Examiner

SINCE 2022 – iNPUT-ACE

EMPLOYMENT HISTORY

05/17 to Present

Collision Analytics LLC – Principal Reconstructionist / Owner

Collision Analytics LLC serves as a complete crash investigation and reconstruction company providing expert consultation, analysis, and testimony for attorneys and insurers throughout the Midwestern United States. Available for rapid response to collision scenes and involved vehicles, Collision Analytics utilizes the latest proven technology to document, preserve, and analyze physical and electronic evidence. These methods lead to a detailed understanding and analysis, allowing its clients to make informed decisions at every stage of their case.

10/16 to Present

Northwestern University Center for Public Safety – Adjunct Instructor

The Center for Public Safety specializes in the instruction of crash investigation and crash reconstruction topics throughout the United States and abroad. Classroom and online instruction, hands-on field testing and inspections, and case studies are a few of the numerous methods utilized to ensure students develop a thorough understanding of curricula. Andrew has also participated in the development of the curriculum for the crash investigation courses. Classes instructed include:

- Traffic Crash Investigation 1
- Traffic Crash Investigation 2
- Math and Physics Review
- Vehicle Dynamics
- Traffic Crash Reconstruction 1
- Traffic Crash Reconstruction 2
- Traffic Crash Reconstruction 3
- Crash Data Retrieval Operator Course
- Traffic Crash Reconstruction Refresher
- Pedestrian/Bicycle Crash Reconstruction

Special Assignment: Curriculum development and video presentations for the Introduction to Traffic Crash Investigation Program for the National Road Safety Centre in the Kingdom of Saudi Arabia

04/06 to 06/21

McHenry County Sheriff's Police – Merited Sergeant

Following his promotion to Sergeant in 2015, Andrew oversaw a team of six reconstructionists and seven investigators responsible for the investigation of all traffic-related fatalities and major injury crashes within unincorporated McHenry County. He progressively worked to raise the bar through investigative thoroughness, the use and continual development of new technology, the utilization of quality peer and expert training, and attentiveness to victims and their families. During his tenure as a crash investigator and reconstructionist, he served as lead investigator for over 80 major crashes and participated in the investigation of over 180 major incidents involving nearly 400 persons and over 250 vehicles (including light vehicles, motorcycles, heavy vehicles, off-road vehicles, farming implements, and trains). Andrew served as a motorcycle officer and a heavy vehicle enforcement officer, where he specialized in the enforcement of heavy vehicle laws and developed and instructed heavy vehicle enforcement curricula.

02/13 TO 09/15

Dynamic Safety, LLC – As-Needed Technician

Duties included assisting Dynamic Safety Partners with passenger vehicle and commercial vehicle inspections; operation of total stations and 3D point cloud surveying equipment; imaging vehicle electronic data recorders; location and documentation of exemplar vehicles; creating diagrams, photograph logs, deposition abstracts, and duty log analyses.

FORMAL EDUCATION

01/21 TO 05/24 [McHenry County College](#) – Associates in Engineering Science
09/04 TO 12/09 [Western Illinois University](#) – B.A. degree – Board of Trustees Major
09/03 TO 06/04 [Iowa State University](#) – Architecture Major – Accepted to 4-year program in August 2004

LICENSES

[Illinois Department of Professional Regulation](#)

Licensed Private Detective Agency 117.001857 (SINCE 2020)
Licensed Private Detective 115.002578 (SINCE 2018)
Permanent Employee Registration 129.371321 (SINCE 2013)

[Illinois Driver's License](#)

Class B-CDL Permit (2015-2016) - Class M (SINCE 2006) - Class D (SINCE 2001)

[Federal Aviation Administration](#)

Small Unmanned Aircraft System (SINCE 2017)

PROFESSIONAL ASSOCIATIONS

SEPTEMBER 2024 [Midwest Association of Technical Accident Investigators \(MATAI\)](#)
OCTOBER 2023 [California Association of Accident Reconstruction Specialists \(CA²RS\)](#)
JULY 2021 [SAE International](#)
NOVEMBER 2017 [National Association of Professional Accident Reconstruction Specialists \(NAPARS\)](#)
SEPTEMBER 2012 [Illinois Association of Technical Accident Investigators \(IATAI\)](#)
AUGUST 2012 [Illinois Truck Enforcement Association \(ITEA\)](#)

AWARDS & COMMENDATIONS

NOVEMBER 2022 [Fricke Cooper Achievement Award](#) – Northwestern University Center for Public Safety
JANUARY 2015 [Glenn Strebel Award](#) – Illinois Truck Enforcement Association
AUGUST 2006 [Ervin H. Warren Award](#) – Police Training Institute – University of Illinois
TENURE [2 Letters of Commendation](#) – McHenry County Sheriff's Office
 [1 Letter of Commendation](#) – Northwestern University Center for Public Safety

CONTINUING EDUCATION – CRASH INVESTIGATION & RECONSTRUCTION

DECEMBER 2024 [Motorcycle Collision Reconstruction](#) – 32 Hours – Lightpoint Learning, Asynchronous Online Study
OCTOBER 2024 [Imaging Data from Hyundai, Kia, and Tesla Vehicles](#) – 2 Hours – Northwestern University Center for Public Safety, Webinar
JULY 2024 [Photogrammetric processing of officer-worn body camera footage using Pix4DMapper software](#)
 – 2 Hours – Stan Taylor & CA²RS, Webinar
JUNE 2024 [AnalyzerPro Advanced Course: Traffic Accident Reconstruction](#) – 8 Hours – Florian Pirkner,
 Webinar with hands-on instructor-guided exercises
JANUARY 2024 [Nighttime Crash Scene Investigation](#) – 2 Hours – Dr. Jeff Muttart & NAPARS, Webinar

Continuing Education (continued)

- OCTOBER 2023 [California Association of Accident Reconstruction Specialists \(CA²RS\) 25th Anniv. Conference](#) – 12 Hours – South Lake Tahoe, CA – *Topics: Pedestrian Reconstruction Methods, Pedestrian Injury Analysis & Biomechanics, and Case Study*
- JUNE 2023 [Zero to Hero in Cloud Compare](#) – 8 Hours – AI2-3D, Webinar with hands-on graded exercises
- JUNE 2023 [The Integrity of Video Evidence – Why It Matters!](#) – 1 Hour – Forensic Collision Investigation & Reconstruction & Amped Software hosted by The Institute of Traffic Accident Investigators, Webinar
- JUNE 2023 [Recon-3D iPhone Lidar for Forensics](#) – 4 Hours – AI2-3D, Webinar with hands-on graded exercises
- MAY 2023 [World Reconstruction Exposition 2023](#) – 5 Days – Orlando, FL – *Topics: The Future of Reconstruction: Data-Driven, Commercial Vehicle Collision Mitigation Systems, Next Generation GM EDRs, Dashboard Cameras & Human Vision, Video Analysis in Collision Reconstruction, Motorcycle-to-Auto Side Impact Modeling, Methods for Establishing Motorcycle Impact Speed, Human Factors Methodologies, Nighttime Recognition and Visibility.*
- Served on the WREX Crash Team as a Data Collection Coordinator
- SEPTEMBER 2022 [Illinois Association of Technical Accident Investigators Conference](#) – 3 Days – Collinsville, IL – *Topics: Autonomous Vehicle and ADAS Reconstruction & Case Studies, 2022 EDR Update, Use of OnStar Data, Crush Analysis Considerations, Advancements in Heavy Vehicle EDRs, Commercial Vehicle Tires*
- MARCH 2022 [iINPUT-ACE Examiner Certification \(IAEC\)](#) – 8 Hours – iINPUT-ACE, Webinar with hands-on instructor-guided exercises
- MARCH 2022 [iINPUT-ACE Operator Certification \(IAOC\)](#) – 8 Hours – iINPUT-ACE, Webinar with hands-on instructor-guided exercises
- JANUARY 2022 [Point Clouds in Collision Reconstruction: Speed from Video and Crush from Photos](#) – 8 Hours – Lightpoint Data, Webinar with hands-on instructor-guided exercises
- JANUARY 2022 [Elevating Collision Reconstruction Analyses with Laser Scanned Exemplars](#) – 2 Hours – Leica Geosystems & Lightpoint Data, Webinar
- JANUARY 2022 [Calculate Distance and Timing from Video](#) - 8 Hours – iINPUT-ACE, Training videos
- SEPTEMBER 2021 [Illinois Association of Technical Accident Investigators Conference](#) – 3 Days – Springfield, IL – *Topics: Accurate Timing from Video, Airborne Methodologies, Berla Entertainment Systems, 2021 EDR Update, Tesla EDR, Toyota Techstream Technology, CDR Tool Operator Update*
- MARCH 2021 [Commercial Vehicle Law Symposium](#) – 8 Hours – Fried Goldberg LLC, Webinar
- FEBRUARY 2021 [IDRR \(Interactive Driver Response Research\) User Forum](#) – 28 Hours – Crash Safety Solutions, Webinar
- FEBRUARY 2021 [Child Passenger Safety Continuing Education](#) – 6 Hours – National Child Passenger Safety Board *Webinar – Topics: Crash Injuries to Children, Pediatric Anatomy, Basic and Advanced Use of Latch Manual, and Manufacturer Update*
- FEBRUARY 2021 [Advanced Crash Reconstruction Utilizing Human Factors Research](#) – 40 Hours – Crash Safety Solutions, Webinar
- JANUARY 2021 [Photomodeler Photogrammetry Tutorials](#) – 8 Hours – Photomodeler Technologies, Online
- DECEMBER 2020 [Advanced Reconstruction with CDR Applications](#) – 40 Hours – Northwestern University Center for Public Safety & Accident Analysis and Reconstruction, Woodstock, IL
- OCTOBER 2020 [Chip Level Data Recovery from Event Data Recorders](#) – 2 Hours – NAPARS Joint Virtual Conference by Matt DiSogra, Webinar
- OCTOBER 2020 [Perception Response Time at Various Crash Types](#) – 2 Hours – NAPARS Joint Virtual Conference by Crash Safety Solutions, Webinar
- APRIL 2020 [Pix4Dmapper Fundamentals & Pix4Dmapper Essentials Certification Exam](#) – 16 Hours – Pix4D, Online

Continuing Education (continued)

MARCH 2020	vCRASH Environments – 16 Hours – Virtual Crash Software, Online
FEBRUARY 2020	vCRASH Simulation Basics – 16 Hours – Virtual Crash Software, Online
APRIL 2019	Tire Forensics & Fleet Technician Clinic – 16 Hours – Tennent & Associates, Lockport, IL
APRIL 2019	Illinois Child Seat Technician Skill Builder – 6 Hours – IDOT, Sycamore, IL
MARCH 2019	Investigating Insurance Fraud and Staged Vehicle Crashes – 16 Hours – National Insurance Crime Bureau, Woodstock & Elgin, IL
DECEMBER 2018	How to use the Bosch Crash Data Retrieval Tool – 4 Hours – Crash Data Group’s Crash Academy, Online
NOVEMBER 2018	Pedestrian & Bicycle Crash Reconstruction – 40 Hours – Northwestern University Center for Public Safety, Evanston, IL
OCTOBER 2018	sUAS Crash Investigation Remote Pilot & Crash Investigation Aerial Photogrammetrist – 32 Hours – Aerial Metrics, Woodstock, IL
OCTOBER 2018	Event Data Recorder Use in Traffic Crash Reconstruction-Level 1 – 40 Hours – Institute of Police Technology and Management, Houston, TX
AUGUST 2018	Fundamental Techniques of Crash Investigation – 6 Hours – Institute of Police Technology and Management, Online
MARCH 2018	Event Data Recorder Summit – 20 Hours – Crash Data Group & Texas Association of Accident Reconstruction Specialists, Houston, TX.
NOVEMBER 2017	Nation Child Passenger Safety Seat Technician Certification –26 Hours – Safe Kids Worldwide, Advocate Condell Hospital, Libertyville, IL.
MARCH 2017	Traffic Crash Reconstruction 3 – 40 Hours – Northwestern University Center for Public Safety, Evanston, IL
SEPTEMBER 2016	Illinois Association of Technical Accident Investigators Conference – 3 Days – Peoria, IL – <i>Topics: Cellular Chip-Offs, Distracted Driving, Event Data Recorders, 2016 EDR Update, GPS Data, Infotainment Systems, Smart Phone Applications, Time-Distance Analysis, Traffic Signal Timing, Tires & Lost Traction, Crash Testing</i>
MARCH 2016	Biomechanical Engineering Application to Crash Investigations – 12 Hours – Dr. Sean Shimada
NOVEMBER 2014	Vericom Familiarization for Crash Reconstruction – 24 Hours – Vericom Computers, Lake Zurich, IL
SEPTEMBER 2014	Crash Data Retrieval System – Back-powering/Imaging Practice – 8 Hours – McHenry County Sheriff’s Office, Woodstock, IL
SEPTEMBER 2014	Illinois Association of Technical Accident Investigators Conference – 3 Days – Peoria, IL – <i>Topics: 2014 EDR Update, Airborne Validation, Minimizing Speed Ranges, Evidence Interpretation, Analyzing Collisions with Multiple Events, Tire Failures on Passenger Cars, Light Trucks, & Heavy Vehicles, Crash Testing</i>
SEPTEMBER 2014	Crash Investigation Workshop Crash Team – 24 Hours – Lake County Major Crash Assistance Team, Grayslake, IL
AUGUST 2014	Grade Crossing Collision Investigation – 8 Hours – Canadian National and Metra Railroad, Woodstock, IL
JULY 2014	Racelogic Video VBOX Pro/Software Training Seminar – 5 Hours – Racelogic USA, Farmington Hills, MI
MAY 2014	Advanced Crash Reconstruction Utilizing Human Factors Research – 40 Hours – Northwestern University Center for Public Safety, Crash Safety Solutions, Evanston, IL
FEBRUARY 2014	Refresher Training – Major Accident Investigation Team – 8 Hours – McHenry County Sheriff’s Office, Woodstock, IL

Continuing Education (continued)

NOVEMBER 2013	Crash Data Retrieval Data Analyst – 40 Hours – Northwestern University Center for Public Safety – Collision Safety Institute, Evanston, IL
OCTOBER 2013	Crash Data Retrieval Technician – 16 Hours – Northwestern University Center for Public Safety – Collision Safety Institute, Evanston, IL
SEPTEMBER 2012	Illinois Association of Technical Accident Investigators Conference – 3 Days – Peoria, IL
MAY 2011	Traffic Crash Reconstruction II – 40 Hours – Northwestern University Center for Public Safety, Evanston, IL
APRIL 2011	Traffic Crash Reconstruction I – 80 Hours – Northwestern University Center for Public Safety, Evanston, IL
APRIL 2011	Vehicle Dynamics – 40 Hours – Northwestern University Center for Public Safety, Evanston, IL
SEPTEMBER 2008	Basic & Advanced CadZone – 16 Hours – Vehicle Crash Consulting, LLC, Woodstock, IL
SEPTEMBER 2008	Accident Investigation II – Online: 80 Hours – Northwestern University Center for Public Safety, Evanston, IL
JUNE 2008	TopCon Total Station Operation – 8 Hours – Positioning Solutions Company, Woodstock, IL
MARCH 2008	Accident Investigation I – 80 Hours – Northwestern University Center for Public Safety, Evanston, IL

CONTINUING EDUCATION – HEAVY VEHICLES

OCTOBER 2023	Heavy Vehicle Event Data Recorder Use in Traffic Crash Investigation – 32 Hours – Forensic Training Group, Covington, KY
JULY 2023	Heavy Vehicle Event Data Recorder Update – 2 Hours – James Loftus & NAPARS, Webinar
SEPTEMBER 2022	Illinois Association of Technical Accident Investigators Conference – 3 Days – Collinsville, IL – <i>Topics: ADAS Reconstruction & Case Studies, Advancements in Heavy Vehicle EDRs, Commercial Vehicle Tires</i>
SEPTEMBER 2022	Bendix Air Brake & Steering System Training – 24 Hours – Bendix Commercial Vehicle Systems LLC, Webinar
APRIL 2022	Heavy Vehicle Forensic Mechanical Inspection for Collision Investigators – 40 Hours – Northwestern University Center for Public Safety, Rockford, IL
MARCH 2021	Commercial Vehicle Law Symposium – 8 Hours – Fried Goldberg LLC, Webinar
MARCH 2020	ITEA Annual Truck Conference – 8 Hours – Illinois Truck Enforcement Association, Naperville, IL
MAY 2019	Accessing & Interpreting Heavy Vehicle Event Data Recorders – 28 Hours – SAE International, Appleton, WI
MARCH 2019	ITEA Annual Truck Conference – 8 Hours – Illinois Truck Enforcement Association, Naperville, IL
MARCH 2016	ITEA Annual Truck Conference – 8 Hours – Illinois Truck Enforcement Association, Naperville, IL
JANUARY 2015	ITEA Annual Truck Conference – 8 Hours – Illinois Truck Enforcement Association, Glen Ellyn, IL
JUNE 2014	Bendix Brake Training School – 24 Hours – Bendix Spicer Foundation Brake LLC, Lisle, IL
MAY 2014	Heavy Vehicle Crash Reconstruction – 40 Hours – Northwestern University Center for Public Safety, Evanston, IL
AUGUST 2012	Truck Enforcement Officer Certification – 8 Hours – Illinois Truck Enforcement Association, St. Charles, IL
NOVEMBER 2009	Truck Weight Law Refresher – 8 Hours – North East Multi-Regional Training, Woodstock, IL
OCTOBER 2009	Commercial Vehicle Safety Inspection – 40 Hours – North East Multi-Regional Training, IL

Continuing Education (continued)

APRIL 2008 [Basic Truck Enforcement & Portable Scale Certification](#) – 40 Hours – North East Multi-Regional Training, Genoa, IL

CONTINUING EDUCATION – CELLULAR SITE & PHONE TECHNOLOGY

OCTOBER 2019 [Basic Historical Cell Site Analysis](#) – 20 Hours – Federal Bureau of Investigation’s Cellular Analysis Survey Team (CAST), Flint, MI

AUGUST 2019 [Using Microsoft Excel for Cell Site Analysis](#) – 2 Hours – Federal Bureau of Investigation, Online

APRIL 2018 [Advanced Cell Phone Investigations](#) – 24 Hours – Geocell LLC, Franklin, MA

APRIL 2018 [Introduction to Cell Phone Investigations](#) – 16 Hours – Geocell LLC, Franklin, MA

MAY 2015 [Properly Preserving Cell Phone and Mobile Device Evidence in a Traffic Crash](#) – 2 Hours – Traffic Safety Resource Prosecutor webinar

JANUARY 2011 [Cell Phone Investigations](#) – 16 Hours – Geocell LLC, Kankakee, IL

CONTINUING EDUCATION – LAW ENFORCEMENT PATROL FUNCTIONS

FEBRUARY 2021 [Standardized Field Sobriety Testing Refresher](#) – 8 Hour – McHenry County Sheriff’s Office Training Division, Woodstock, IL

NOVEMBER 2019 [DUI Summit](#) – 16 Hours – Illinois Truck Enforcement Association, Naperville, IL

MAY 2019 [Advanced Roadside Impaired Driving Enforcement \(ARIDE\)](#) – 16 Hours – North East Multi-Regional Training, Woodstock, IL

JANUARY 2019 [THC DUI / Medical Marijuana in Illinois](#) – 4 Hours – McHenry County Sheriff’s Office Training Division, Woodstock, IL

DECEMBER 2018 [Drugged Driving Investigations & the Use of Drug Recognition Experts](#) – 8 Hours – DuPage County Accident Reconstruction Team, Carol Stream, IL

SEPTEMBER 2018 [Emergency Vehicle Operator Course](#) – 8 Hours – McHenry County Sheriff’s Office, Woodstock, IL

SEPTEMBER 2018 [Focus Group on Emergency Response Interactions with Autonomous Vehicles](#) – 2 Hours – Virginia Tech Transportation Institute, Online Meeting

SEPTEMBER 2018 [Standardized Field Sobriety Testing Refresher](#) – 4 Hours – McHenry County Sheriff’s Office Training Division, Woodstock, IL

MAY 2018 [Laser Speed Measurement](#) – 4 Hours – McHenry County Sheriff’s Office, Woodstock, IL

DECEMBER 2017 [UAV Pilot Flight School](#) – 8 Hours – Aerovista Innovations, Northeastern Illinois Public Safety Training Academy, Glenview, IL.

NOVEMBER 2017 [UAV Pilot Ground School](#) – 8 Hours – Aerovista Innovations, Northeastern Illinois Public Safety Training Academy, Glenview, IL.

NOVEMBER 2017 [Implementing a UAV Program](#) – 4 Hours – Aerovista Innovations, Northeastern Illinois Public Safety Training Academy, Glenview, IL.

OCTOBER 2017 [Breath Alcohol Operator & Preliminary Breath Test Examiner Recertification](#) – Online 1.5 Hours – Illinois State Police

MARCH 2017 [Standardized Field Sobriety Testing Refresher](#) – 8 Hour – McHenry County Sheriff’s Office Training Division, Woodstock, IL

SEPTEMBER 2016 [Emergency Vehicle Operator Course](#) – 8 Hours – McHenry County Sheriff’s Office, Woodstock, IL

MAY 2015 [Decision Making for Critical Incident Response](#) – 8 Hours – Woodstock, IL

Continuing Education (continued)

DECEMBER 2014	Breath Alcohol Operator & Preliminary Breath Test Examiner Recertification – Online 1.5 Hours – Illinois State Police
JANUARY 2014	Advanced Roadside Impaired Driving Enforcement (ARIDE) – 16 Hours – North East Multi-Regional Training, Woodstock, IL
JUNE 2013	Reid Interviews & Interrogations: Basic & Advanced – 32 Hours – Reid & Associates, Woodstock, IL
DECEMBER 2012	Basic Evidence Technician Program – 40 hours – Northeast Multi-Regional Training, Lake in the Hills, IL
JANUARY 2012	Fraudulent Documentation Identification – 1 Hour – Illinois Secretary of State, Woodstock, IL
DECEMBER 2011	Breath Alcohol Operator & Preliminary Breath Test Examiner Recertification – Online 1.5 Hours – Illinois State Police
SEPTEMBER 2011	Emergency Vehicle Operator Course – 8 Hours – McHenry County Sheriff's Office, Woodstock, IL
SEPTEMBER 2011	Mock Crime Scene – 8 Hours – McHenry County Sheriff's Office Investigations, Woodstock, IL
MAY 2011	Police Motorcycle Operator – 80 Hours – Midwest Police Motorcycle Training, Troy, MI
MAY 2011	Responding to Utility Emergencies – 3 Hours – RTUE Online
APRIL 2011	Testifying in a DUI Trial – 8 Hours – North East Multi-Regional Training, Woodstock, IL
OCTOBER 2010	Laser Speed Measurement – 4 Hours – McHenry County Sheriff's Office, Woodstock, IL
FEBRUARY 2010	Radar Speed Measurement – 4 Hours – McHenry County Sheriff's Office, Woodstock, IL
SEPTEMBER 2009	Advanced Vehicle Contraband Concealment – 16 Hours – Midwest Counterdrug Training Center, Johnston, IA
JULY 2009	Roadside Interviews – 32 Hours – Midwest Counterdrug Training Center, Johnston, IA
MAY 2009	Emergency Vehicle Operator Course – 8 Hours – McHenry County Sheriff's Office, Woodstock, IL
DECEMBER 2008	Breath Alcohol Operator & Preliminary Breath Test Examiner – 32 Hours – Illinois State Police, Woodstock, IL
NOVEMBER 2008	Standardized Field Sobriety Testing Refresher – 8 Hour – North East Multi-Regional Training, Woodstock, IL
NOVEMBER 2008	Understanding Felony Review and License Abstracts – 1 Hour – McHenry County State's Attorney, Woodstock, IL
JUNE 2008	Reid Interviews & Interrogations: Basic & Advanced – 32 Hours – Reid & Associates, Woodstock, IL
APRIL-JULY 2006	Basic Law Enforcement – 480 Hours – University of Illinois Police Training Institute, Champaign, IL

PRESENTATIONS

NOVEMBER 2024	Midwest Traffic Safety Annual Conference <i>Topics: Use of Heavy Vehicle Electronic Collision Data & Pedestrian Crash Team Assistance – 2 Days – Breakout sessions</i>
SEPTEMBER 2024	Traffic Accident Reconstruction Digital Summit powered by AnalyzerPro <i>Topic: Use of AnalyzerPro's Automatic Collision Analysis tool through the study of a colinear NHTSA crash test – 1 Hour – Main session</i>
OCTOBER 2023	California Association of Accident Reconstruction Specialists (CA²RS) 25th Anniv. Conference <i>Topics: Pedestrian Collision Evidence ID and Documentation, Vehicle Dynamics & Time-Distance, & Case Study – 8 Hours – Main sessions</i>

Presentations (continued)

- OCTOBER 2022 **Michigan Association of Traffic Accident Investigators (MATAI) Annual Conference**
Topics: Mapping & Measuring, Vehicle Inspection & Documentation, Momentum & Energy Calculations for Crash Reconstruction – 8 Hours – Main sessions
- SEPTEMBER 2022 **Illinois Association of Technical Accident Investigators (IATAI) Annual Conference**
Topics: Hands-On Case Study in Vehicle Behavior – 4 Hours – Breakout session
- APRIL 2022 **Louisiana Highway Safety Commission and Department of Transportation and Development Seminar: Leadership of Crash Investigation and Reconstruction Best Practices**
- MARCH 2022 **Illinois Truck Enforcement Association (ITEA) Annual Conference**
Topics: Heavy Vehicle Crash Investigation & Data Preservation – 2 Hours – Breakout sessions
- OCTOBER 2021 **California Association of Accident Reconstruction Specialists (CA²RS) Fall Conference**
Topics: Mapping & Measuring, Photography, Momentum for Crash Reconstruction, & Cell Site Analysis – 6 Hours – Main sessions
- SEPTEMBER 2021 **Illinois Association of Technical Accident Investigators (IATAI) Annual Conference**
Topics: Heavy Vehicle Crash Investigation & Excel for Crash Reconstruction – 6 Hours – Main and breakout sessions
- OCTOBER 2020 **Asociación de Peritos en Investigación de Accidentes de Tránsito A.P.I.A.T. – Webinar 4A –**
Topic: Use of Photogrammetry in the Investigation of Traffic Accidents – 1.25 Hours – Webinar presentation to countries throughout South America
- 2014 - 2021 **McHenry County Sheriff's Office Major Crash Investigation Unit** – During his tenure on the Major Crash Investigation Unit, Andrew has developed curriculum and instructed on the following topics:
- Mock crash scene training
 - DUI protocol
 - Investigative methods
 - Total station operations
 - Vehicle inspections
 - Motorcycle inspections
 - Reconstruction methods & refresher
 - Part 107 FAA Test Preparation
 - UAV Remote Pilot Training
 - UAV photography for crash investigations
 - Nighttime UAV photography of crash/crime scenes
 - Search warrants and subpoenas
 - Cell phone investigations
 - Vehicle skid testing
 - The Crash Zone software
 - Crash Data Retrieval refresher
 - Event data recorder preservation
 - Lamp inspection and preservation
- Andrew also provides educational presentations to heavy trucking companies on the following topics:
- Commercial Driver's License policy
 - CDL licensing laws
 - Effects of violations on CDL licenses
 - Safe driving habits
 - Incident reporting
 - Vehicle weight laws
 - Load securement & equipment laws
 - Trailer braking systems
 - Pre-trip inspections
 - Farm trucking laws
- 2013 - 2021 **Illinois Truck Enforcement Association** – While maintaining membership and certification through the Illinois Truck Enforcement Association, Andrew developed curriculum in cooperation with the Illinois Department of Transportation, Illinois Secretary of State, and Illinois State Police. Classes presented throughout Illinois include:
- Basic Truck Enforcement
 - Advanced Truck Enforcement
 - Truck Enforcement Officer Certification