TECHNICAL CONFERENCES AND SEMINARS

1.	JS Held, Advanced Collision Reconstruction with CDR Applications 02/03-07/2025 CDR information applications pertaining to crash analysis and Reconstruction. (40 hrs)	2025
2.	Utah Transportation Conference (11/05-07/24) (Speaker) Human Factors Related to Crashes on Roadways	2024
3.	Mechanical Forensics Engineering Services, LLC Advanced Motorcycle Crash Analysis (08/12-16/24) Instruction on techniques and analysis of collision reconstruction of motorcycle involved incidents. Including dynamics specific to motorcycle braking, skidding, and sliding across road surfaces (40 hrs)	2024
4.	Accident Analysis and Reconstruction. Inc Crush Energy Analysis (06/26-06/30) Crush energy analysis, damage and energy applications for Collision reconstruction using "crush" (40 hrs)	2023
5.	WREX Crash Conference, Orlando Florida (04/17-04/21) Live crash testing, conference presentations on motorcycle reconstruction, use of Toyota live stream, tire inspection, perception and response times, and 3D scanning information. (40 hrs)	2023
6.	Forensics Training Group, Heavy Vehicle Event Data Recorder (03/27-31/23) Certificate of training for the use of HVEDR in traffic crash investigation with instructions for the Forensic Link Adapter and Smart Sensor Simulator #2 (40 hrs)	2023
7.	Forensics Training Group, Heavy Truck Reconstructions Techniques (02/06- 10/23) Heavy vehicle reconstruction techniques including brake inspection, understanding of air brake systems, brake fade, adjusted friction values, rollover, trailer off tracking, under ride and using energy to solve for braking ability. (40 hrs)	2023
8.	UDOT, Traffic Signal Training for Law Enforcement (01/11-12/23) Light timing regarding how detection and traffic signals work. This includes phasing, timing, coordination, and systems. Understanding programming and ATSPM. (16 hrs)	2023
9.	Accident Analysis & Reconstruction Inc., Accident reconstruction RECON 1 is the equivalent to Northwestern University's TAR 2 with additional TAR 3 applications. The course utilizes an approach to identify pre and post collision velocities based on vehicle movement into and the change of direction headings. In addition, the course explores the application and importance of time distance in the analysis of collisions to assist with avoid ability analysis. (80 hrs)	2022
10.	Accident Analysis & Reconstruction Inc., Use of Excel in Accident Investigation (10/03-07/2022) Instruction in the use of excel to aid in the investigation of collisions (40 hrs)	2022

11. Crash Data Specialists LLC., Advanced Collision Reconstruction with CDR Applications (03/21-25/2022)	2022
 12. BERLA iVe (3/7-11/22) Instruction on the use of hardware and software developed Berla to access the data contained in vehicles infotainment center. During the 40-hour training I became certified as a vehicle system forensic technician and vehicle system forensics examiner (40 hours) 	2022
13. Associates of Pre-Engineering SLCC program: Engineering/Mechanical APE, graduation date 08/07/21	2021
14. FARO SCANNER CERTIFICATION TRAINING (5/9-14/21) Train the trainer for FARO 3D laser scanner certifications. Instruction on the use and operation of the FARO Focus 3D laser scanner with additional certification as an instructor to train others in the operation of the scanner and Scene software for registration. (40 hrs)	2021
15. Crash Safety Solutions, LLC (2/23-25-20) IDRR (Interactive Driver Response Research) user forum and training for human factors perception and response software. IDRR software is used to determine the response time for test subjects in case studies using similar methodology in controlled scenarios and how to compare the actions of an involved driver to documented case studies. (32 hrs)	2020
16. Utah Department of Transportation (5/23/19) Instructions on light timing to include phasing, timing, vehicle detection technologies, automated signal performance measures and their use in crash reconstruction (4 hrs)	2019
 17. Rudy Limpert, Motor Vehicle Accident Reconstruction and Cause Analysis (10/15-10/18) Understanding the MARC program and how to utilize it in Crash Reconstruction Basic collision reconstruction, coving the use of crush, momentum, and energy (32 hrs) 	2018
18. Federal Highway Administration, Road Safety Assessment Workshop (3/26-27/18) Instruction on road safety assessment, incorporation of roadway factors in collisions, light timing and understanding intersection conflicts. Importance of communication between investigations and road design to make safer roadways. (12 hrs)	2018
19. ARC-CSI Las Vegas Crash Conference (9/18-21/2017) Live crash testing and data collection with an emphasis on automobile/pedestrian collision analysis, pre and post collision analysis, and conference presentations (32 hrs)	2017
20. Northwestern University, Crash Data Retrieval–Data Analyst (5/1-5/2017) Understanding and analysis of data retrieved from CDR and MCL units Regarding information for deployment events (40 hrs)	2017

21. Crash Data Specialists LLC., Advanced Collision Reconstruction with CDR 2017 Applications (03/21-14/2017)

CDR information applications pertaining to crash analysis and Reconstruction. (32 hrs)

22. ARC-CSI Las Vegas Crash Conference Live crash testing and data collection with an emphasis on motorcycle collision analysis, pre and post collision analysis, and conference presentations (40 hrs)	2016
23. 3D advanced Forensics training (11/9/15) Instruction on the use of advanced techniques in software application of the FARO scene software for registration of multiple data sets including FARO freestyle scanner data and photograph integration. (40 hrs)	2015
24. FARO 3D scanner operator (3/23-25/2015) Instructions on the operation and software applications of using the FARO 3D laser scanner in completion of scene surveys (24 hrs)	2015
25. Accident Analysis & Reconstruction Inc., Pedestrian Reconstruction Investigation	2014
(6/16-20/2014) Analysis of evidence from Auto/pedestrian collisions and speed calculations from throw distances. Included instruction on strengths and weaknesses of various equations used in the analysis of auto/ped collisions (40 hrs)	
26. Crash Data Specialists LLC., Advanced Collision Reconstruction with CDR Applications (06/10-13/2014) CDR information applications pertaining to crash analysis and Reconstruction. (32 hrs)	2014
 27. U.S. Department of Transportation Federal Highway Administration, Traffic Incident Management/TIM (4/9-10/14) Traffic incident management and response training. Train the trainer course on Incident response, multi-agency coordination and safety instruction of handling traffic collisions (24 hrs) 	2014
28. Northwestern University, Heavy Vehicle Reconstruction (11/4-8/2013) Analysis of heavy vehicles and how they react in vehicle collisions with emphasis braking systems, inspection, and off tracking. (40 hrs)	2013
29. Accident Analysis & Reconstruction Inc., Pedestrian Reconstruction Investigation	
(6/10-14/2013) Analysis of evidence from Auto/pedestrian collisions and speed calculations from throw distances. Included instruction on strengths and weaknesses of various equations used in the analysis of auto/ped collisions (40 hrs)	
30. Delta V recon, LLC. Vetronix/Bosch Crash Data Retrieval Course Tech 1 & 2	2013

(3/8/2013)

Crash data retrieval tech 1&2, instruction on the use of the CDR tool including Collection, imaging, and back power solutions (8 hrs)

31. Northwestern University, Human Factors (12/10-14/2012)

Analysis of human behavior regarding perception and reaction time Based on case studies utilized in the IDRR software (40 hrs)

2012

32.	Accident Analysis & Reconstruction Inc., Advanced Collision Reconstruction with CDR Applications (11/12-16/2012) CDR information applications pertaining to crash analysis and Reconstruction. (40 hrs)	2012
33.	Accident Analysis & Reconstruction Inc., Use of Excel in Accident Investigation (10/15-19/2012) Instruction in the use of excel to aid in the investigation of collisions (40 hrs)	2012
34.	Accident Analysis & Reconstruction Inc., Advanced Crush For Collision Analysis (3/5-9/2012) Crush energy analysis, damage, and energy applications for Collision reconstruction using "crush" (40 hrs)	2012
35.	Northwestern University, TAR 3 (11/28-12/2/2011) Continuing instruction on modern collision reconstruction Including incorporation of statistical processes in determination Speed ranges (40 hrs)	2011
36.	Northwestern University, Crash Data Retrieval Specialist (7/11-15/2011) Understanding and analysis of data retrieved from CDR and MCL units Regarding information for deployment events (40 hrs)	2011
37.	Northwestern University, Motorcycle Crash Reconstruction (10/11-15/2010) Analysis of evidence from motorcycle crashes including the analysis Of friction factors found during slide tests (40 hrs)	2010
38.	Post Blast Investigation (06/22-24/2010) Analysis of evidence from post blast material to determine means and methods, taught by ATF (24 hrs)	2010
39.	Northwestern University, TAR 2 (12/07-11/2009) Advanced Analysis of Evidence During Traffic Collision Reconstruction. (40 hrs)	2009
40.	Northwestern University TAR 1 (11/09-20/2009) Expert Aspects of Motor Vehicle Collisions, and How to Reconstruct Collisions Based on Evidence. (80 hrs)	2009
41.	Salt Lake County Sheriff's Office (10/26-30/2009) Advanced Traffic Collision Investigation. Speed Analysis, Damage Analysis, and Speed Calculation According to Tire Marks. (40 hrs)	2009
42.	Utah Highway Patrol (06/15/2009) Occupant Kinematics Understanding how occupants move post collision (8 hrs)	2009
43.	Utah Highway Patrol (3/16-19/2009) Photogrammetry. Collision Scene Mapping and Diagraming. (32 hrs)	2009