

# *Kevin William Forcier SR*

**Reconstruction Specialist, ACTAR 2054**

**4CA Consulting & Reconstruction LLC**

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## **CURRICULUM VITAE**

CURRICULUM VITAE – KEVIN W. FORCIER SR.

## NATIONALLY ACCREDITED CRASH RECONSTRUCTIONIST # 2054

### CURRICULUM VITAE

#### SPECIALIZED EXPERIENCE:

- Crash investigations involving scene analysis, vehicle examinations, collection of evidence and witness interviews.
- Certified in Airbag and associated sensors imaging and analysis.
- Past, nationally certified child passenger safety seat technician.
- Seat belt usage analysis.
- Crash reconstruction investigations involving speed determination, occupant positioning analysis, time – distance analysis, location of points of impact and computer-aided reconstruction as well as scene and vehicle component analysis.
- Dynamic crash scene analysis.
- Motorcycle crash scene analysis.
- Computer simulation and animation of motor vehicle crash scenes.
- Investigated and assisted in the investigation of several thousand crash scenes from 1985 to present time.
- Completed approximately 300+ crash reconstructions since 1990.
- Consulted on, reviewed or assisted with approximately 400+ crash reconstructions since 1990.

#### EXPERT WITNESS EXPERIENCE:

- Qualified expert in numerous Pennsylvania County Courts of Common Pleas as well as that of the Courts of the Minor Judiciaries.
- Expert testimony was presented on the following issues: Crash Data Retrieval and Analysis, locations of vehicles in association with points of impact, vehicle impact speed analysis, passenger seat belt usage, time/distance analysis as well as roadway friction analysis, etc.

**ACADEMIC BACKGROUND:**

- Attended numerous training seminars and lectures throughout the United States.
- New Castle School of Trades, New Castle, PA. Received certification in auto body, fender repair and refinishing with a total of 720 hours of instruction and hands-on training, 1977-1978.
- Penn State University, Shenango Valley Campus. Associate of Engineering Degree, 1978-1980.
- Penn State University, Capitol Campus. Completed (8) credit hours in Surveying and (8) credit hours in Advanced Math with additional hours dedicated to engineering related courses, 1980.
- Pennsylvania State Police Academy, Hershey, PA, 1985.
- On Scene Accident Investigation, Pennsylvania State Police Northwest Training Center, Meadville, Pa, 1989.
- Advanced Accident Investigation, Pennsylvania State Police Southwest Training Center, Greensburg, PA, 1989.
- Accident Reconstruction, Pennsylvania State Police Academy, Hershey, PA. I was one of the first (30) Troopers to complete this course, January 1990.
- Certified Technician, as part of NHTSA's Standardized Child Passenger Safety Training program, recertified in 2004, 2007, 2009 and October 2010. Technician certification: T15618, 2001-2013. Expired January 01, 2013.
- Certified Forensic Mapping Specialist on the Sokkia Electronic Total Station, Ephrata, PA. 32 hours specialized course for CRASH and CRIME Scene Investigators, May 2006.
- MapScenes Pro 2006 Level 1 Training Course, Pennsylvania State Police Academy, Hershey, PA., conducted by the Pennsylvania State Police Bureau of Patrol, August 2006.
- Commercial Vehicle Investigation I, Conducted by Pennsylvania Department of Education, Commonwealth of Pennsylvania Institute For Law Enforcement Education in Harrisburg, Pennsylvania, 2006.
- Crash Data Retrieval (CDR) System Operator Training Series, Crash Data Retrieval Specialist, as instructed by the Collision Safety Institute for the Vetronix Corporation conducted in Colt's Neck, New Jersey, coverage through CDR System version 2.8, 2006.

- Collision Reconstruction Seminar, Conducted by the Pennsylvania State Police at State College, Pennsylvania. Sponsored in part by AAA Mid-Atlantic and the Mid-Atlantic Foundation for Safety & Education. September 2006, 2007, 2008, 2009, 2011, 2012, 2013, 2014, 2015 and October 2016.
- Occupant Kinematics, Conducted by the Commonwealth of Pennsylvania's Institute for Law Enforcement Education, the training was held at the Allegheny County Police and Fire Academy located in Allison Park, PA, June 2007.
- Motorcycle Collision Reconstruction Training, Conducted by Institute of Police Technology and Management, University of Northern Florida in conjunction with the Pennsylvania State Police and the Delaware State Police at Dover, Delaware, April 2008.
- Reconstruction Training Refresher Course, Conducted by the Bureau of Training and Education, Pennsylvania State Police in State College, PA, April 2008.
- 3D Laser Scanning for Crash Reconstruction, Four-day advanced course conducted at Troop H, Harrisburg Headquarters by Leica Geosystems, October 2008.
- ACTAR, Accreditation Commission for Traffic Accident Reconstruction, on January 28, 2009. I completed the requirements for National Certification in Traffic Accident Reconstruction, an 8 hour exam designed to qualify experienced crash reconstructionists on an international basis. This commission is sponsored by all of the professional accident reconstruction organizations in North America. I am now among the ranks of approximately 1200 internationally certified ACTAR Reconstructionists. ACTAR Certification # 2054, January 2009, September 2010. Recertified spring 2015.
- Occupant Kinematics, Conducted by the Ohio State Highway Patrol, the training was conducted at the Ohio State Highway Patrol Police Academy in Columbus, Ohio, November 2009.
- CDR User's Summit, Crash Data Retrieval User's Summit, Houston, Texas. Conducted in conjunction with Collision Publishing and NAPARS, National Association of Professional Accident Reconstruction Specialists, Inc., January 2010, 2011, 2012, 2013, 2014, 2015 and 2016.
- Event Data Recorder Use In Traffic Crash Reconstruction, The training was conducted by the Institute of Police Technology and Management, University of North Florida in conjunction with the Allegheny County Police and Fire Academy located in Allison Park, Pennsylvania on April 5 through 9, 2010. The training dealt

- Continued: with retrieval techniques needed to retrieve crash data and the analysis from the vehicle's airbag and power control modules as well as roll-over sensors as it pertained to a crash investigation, April 2010.
- Acceleration and Vericom Computer Familiarization, The training was conducted by Vericom President, Rick Jobe in conjunction with the Ohio Peace Officer Training Academy in London, Ohio on April 19 – 20, 2010. This course dealt with the use of the Vericom 3000/4000 vehicle computers for the accurate measurements and documentation of roadway friction factors as well as all aspects of braking and acceleration measurements used in vehicle crash investigation, April 2010.
- ACTAR, Accreditation Commission for Traffic Accident Reconstruction, Recertified on September 23<sup>rd</sup>, after completion of 126 CEU, (continuing education units) with 80 CEU's required for recertification, I completed the requirements for National Certification in Traffic Accident Reconstruction for five additional years, September 2010 - 2015. Recertified spring 2015 with 540 CEU's for an additional five year period expiring 2020.
- Crash Scene Animation, Training Certificate in ARAS 360 Advanced 3D Computer Diagramming presented by ARAS 360 Technologies Inc. Training was conducted at the Evansville Police Department, Evansville, Indiana. December 2010.
- Institute of Police Technology and Management, University of North Florida, Special Problems in Traffic Crash Reconstruction, May 2011, 2012 and 2013.
- ARC-CSI Crash Conference, Las Vegas, Nevada. Conducted in association with The ARC Network and the Crash Safety Institute, May 2011, June 2012, May 2013, June 2014, June 2015 and May 2016.
- Institute of Police Technology and Management, University of North Florida, Pedestrian / Bicycle Crash Investigation conducted in Greensburg, Pennsylvania on November 5 – 9, 2012.
- Crash Scene Animation, Training Certificate in ARAS 360 HD Advanced 2D / 3D Computer Diagramming presented by ARAS 360 Technologies Inc. Conducted November 13 – 15, 2012.
- Institute of Police Technology and Management, University of North Florida, Applied Physics for the Traffic Crash Investigator conducted in Greensburg, Pennsylvania on March 4 – 8, 2013.

- Photography for the Traffic Crash Investigator in North Canton, Ohio at the direction of Ohio Peace Officer Training Academy in London, Ohio on April 19 – 20, 2010. This course dealt with the use of SLR digital cameras for the documentation of scene evidence in various lighting situations. A second course was conducted on October 16, 2013.
- Institute of Police Technology and Management, University of North Florida, Energy Methods & Damage Analysis in Traffic Crash Reconstruction conducted in Greensburg, Pennsylvania on November 18 – 22, 2013.
- National Association of Professional Accident Reconstruction Specialists, Inc. (NAPARS) 2014 Joint Annual Conference on advanced topics in Collision Investigation and Reconstruction, September 10 – 12, 2014 – Portland, Maine. Conference Theme – Crash Damage Energy.
- Completed FARO Reality Training for certification in the use of FARO Reality Animation and Reconstruction software. April 14 – 17, 2015.
- WREX – World Reconstruction Exposition, Orlando, Florida, Conducted May 2 – 6, 2016. Attended the largest crash investigation and reconstruction conference ever held in North America and participated in numerous data collection surveys and projects.
- CDR Analysis and Applications – Advanced training course 06-728-16-0: presented by the Ohio Peace Officer Training Commission & The Office of the Attorney General Conducted on October 31 – November 4, 2016. Instructed by Crash Data Specialists LLC at Ohio Peace Officer Training Academy, London Campus, 1650 State Route 56, SW, London Ohio 43140
- EDR User's Summit, Crash Data Retrieval User's Summit, Houston, Texas. Conducted in conjunction with Collision Publishing and NAPARS, National Association of Professional Accident Reconstruction Specialists, Inc., March 6 – 8, 2017, and March 5 – 7, 2018
- BERLA, Vehicle Forensics with the use of the iVe software and hardware system. System provides access to the vehicles operators and locations by way of the onboard vehicle infotainments systems and GPS. Conducted in Annapolis, Maryland on April 24 – 28, 2017. Current until 2020.
- Human Factors for Traffic Crash Reconstruction, presented by Jeffery W. Muttart, Ph.D. of CRASH SAFETY SOLUTIONS, LLC. Conducted at the University of New Hampshire, Dunham, NH on July 10 – 14, 2017

**PROFESSIONAL WORK EXPERIENCE:**

- 4CA Consulting & Reconstruction LLC, On April 14, 2009 I formed 4CA Consulting & Reconstruction LLC of which I am the sole owner and Reconstruction Specialist of record. My company deals with all facets of general crash reconstruction, animation with ARAS 360 HD and FARO Reality and crash data retrieval and analysis in conjunction with the Bosch Crash Data Retrieval System, current version available thru current model year.
- Conneaut Lake Regional Police Department – Sworn Officer and Department Crash Reconstruction Specialist. Certified by the Pennsylvania Municipal Police Officers' Education & Training Commission on April 12, 2011. M.P.O.E.T.C. Certification Number: 7210, 2011 to present.
- Troop E – Erie C.A.R.S. Unit, Assigned to the position of fulltime Collision Analysis and Reconstruction Specialist. On April 02, 2010, after twenty five years of dedicated service to the Commonwealth of Pennsylvania I retired from the Pennsylvania State Police with the rank of Corporal. Upon my retirement I was one of only two fulltime Collision Analysis and Reconstruction Specialists responsible for the four county areas which encompass Troop E – Erie. These counties included all of Crawford, Erie, Venango and Warren Counties with a service area of 3,373 square miles. 2006 to 2010.
- Supervisor and Alternate Criminal Investigation Section Supervisor. During this time I investigated, assisted and reviewed crash investigations and criminal investigations as well as the majority of the fatal crash investigations that occurred from 1997 until I was assigned to the C.A.R.S. Unit fulltime in April 2006.
- Pennsylvania State Police, Troop P, VAR, Wyoming, PA. Troop E, VAR, Seneca and Meadville, PA. During this time, I was promoted to Corporal and continued to perform my duties as a Department Vehicle Accident Reconstructionist. I conducted numerous accident reconstruction investigations. 1993 to 1997.
- Pennsylvania State Police Troop E, VAR, Meadville, PA. During this time, I assisted in the investigation of several hundred traffic accidents both for the Pennsylvania State Police, as well as for numerous local police departments. 1990 to 1993.
- Pennsylvania State Police, Enlistment: April 15, 1985 retiring April 02, 2010.
- CBI Industries, Greenville, Pennsylvania. Engineering Design Technician. March 1980 – April 1985.

**OTHER SPECIALIZED TRAINING:**

- C.M.I. Intoxilyzer 1000 Operator
- State Police Aerial Reconnaissance and Enforcement Program
- Cognitive Interviewing Techniques
- Class "A" Wiretapping and Electronic Surveillance Certification

**PROFESSIONAL ASSOCIATIONS:**

- The Accreditation Commission for Traffic Accident Reconstruction, (ACTAR) member certification No: 2054.
- NAPARS, National Association of Professional Accident Reconstruction Specialists, Inc. January 2010, accepted as a full member of this National Organization of Crash Reconstructionists, 2010 to present.
- The ARC Network, Accident Reconstruction Communications Network.
- Society of Automotive Engineers International; member number 6133189847.
- Pennsylvania Collision Analysis & Reconstruction Society, 2011 to present.
- NATARI - National Association of Traffic Accident Reconstructionists and Investigators, approved as a full member in good standing, 2012 to present.
- MdATAI - Maryland Association of Traffic Accident Investigators, approved as a full member in good standing, 2012 to present.

**Contact Information:**

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