



Robert G. Miller

ACTAR #2915

Curriculum Vitae

EDUCATION:

State University of New York College at Brockport – Brockport, N.Y. 1995 – 2007

Bachelor of Science Degree, Summa cum Laude

Major: Journalism / Public Relations / Marketing, Minor: Political Science

Departmental Scholar Award - Communications – 2004

Lambda Pi Eta – Communications Honor Society – 2003

Alpha Chi – Scholastic Honor Society – 2001

State University of New York, Alfred Agricultural & Tech College – Alfred, N.Y. 1977-1978

Major: Drafting and Design – Incomplete

Kendall Jr. Sr. High School – Class of 1977

New York State Regents Diploma

Majors; Mathematics, Science, Art, Agriculture

SPECIALIZED EDUCATION AND TRAINING:

2019 – Digital Forensics of Heavy Vehicle Event Data Recorders Course, University of Tulsa, Tulsa, Oklahoma – (20 hours)

2019 – L-Tron OSCR 360-degree Camera Operator Course, Lancaster, New York – (6 hours)

2016 – Bosch Crash Data Retrieval (CDR) Analyst Course, Collision Safety Institute, New York State Police Troop G Headquarters, Latham, New York - (40 Hours)*

2016 – New York State Police Collision Reconstruction In-Service Training, Willard Drug Treatment Campus, Willard, New York (32 hours, 16 hours Instructing Bosch CDR Technician Level 1 and Technician Level 2 Course)

2016 - Certified Public Safety Laser Scan Analyst Course, Leica Geosystems, New York State Police Academy, Albany, New York - (32 Hours)

2015 – Certified Public Safety Laser Scan Technician Course, Leica Geosystems, New York State Police Academy, Albany, New York - (32 Hours)

2015 – Crash Data Retrieval (CDR) User's Summit - Houston, Texas (Participant) - (20 Hours)*



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- 2015 – Crash Data Retrieval (CDR) Technician/Mentor Train-the-Trainer Course – CDR User’s Summit - Houston, Texas – Certification Maintenance - (8 hours)*
- 2015 – New York State Police Collision Reconstruction In-Service Training, Willard Drug Treatment Campus, Willard, New York (32 hours)
- 2015 – Applied Physics for the Traffic Crash Investigator - Institute of Police Technology and Management, University of North Florida, New York State Police Academy, Albany, New York - (40 Hours)*
- 2014 – Occupant Kinematics for the Traffic Crash Reconstructionist - Institute of Police Technology and Management, University of North Florida, New York State Police Academy, Albany, New York - (40 Hours)*
- 2014 – Bosch Crash Data Retrieval (CDR) Update Instruction - Collision Safety Institute, New York State Police Collision Reconstruction In-Service Training, Romulus, New York - (12 Hours)
- 2014 – Bosch Crash Data Retrieval (CDR) Technician Level 1 and Technician Level 2 Course Instruction - Collision Safety Institute, New York State Police Collision Reconstruction In-Service Training, Romulus, New York - (16 Hours)
- 2014 – Aquatic Death and Homicidal Drowning Investigation – New York State Division of Criminal Justice Services, Rochester Police and Fire Training Academy - (9 Hours)
- 2013 – Bosch Crash Data Retrieval (CDR) Update Instruction - Collision Safety Institute, New York State Police Collision Reconstruction In-Service Training, Romulus, New York - (20 Hours)
- 2013 – Investigating Human Fatigue Factors Introductory Training Program – New York State Police Collision Reconstruction In-Service Training, Romulus, New York
- 2013 – Bureau of Criminal Investigation Basic Investigator Course, New York State Police Academy, Albany, New York - (64 Hours)
- 2013 – Crash Data Retrieval (CDR) User’s Summit - Houston, Texas (Participant) - (20 Hours)*
- 2013 – Crash Data Retrieval (CDR) Technician Train-the-Trainer Course – CDR User’s Summit - Houston, Texas – Certification Maintenance - (8 hours)*
- 2103 – Forensic Anthropology: Mapping and Excavation of Clandestine Burials – National Institute of Justice, University of North Texas Distance Learning
- 2013 – Fundamentals of Forensic Questioned Documents – West Virginia University Extended Learning, 4.75 International Learning Units earned
- 2012 – Attended certification training for Train-the-Trainer; Electric Vehicle Safety for Emergency Responders, presented by National Fire Protection Association, New York State Police Academy, Albany, New York - (8 Hours)



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- 2012 – DWI Homicide Crash Training: Crash Reconstruction and Expert Testimony, New York Prosecutors Training Institute, Auburn, New York. Participated in presentation and training capacity - (20 Hours)
- 2012 – Visual Statements, Edge FX, Advanced 3D Computer Diagramming and Animation for Incident Reconstruction, Albany, New York - (16 Hours)*
- 2012 – ARAS 360 HD Advanced 3D Computer Diagramming and Animation for Incident Reconstruction, Albany, New York - (16 Hours)*
- 2012 – Attended Accident Reconstruction Communications / Collision Safety Institute (ARC/CSI) Conference, Las Vegas, Nevada, 06/04-07/12, topics included Hybrid Vehicle Technology, Seat belt Analysis, Biomechanical Analysis, Establishing Closing Speeds from CDR data, Highway Design and Safety Appurtenances, and Case Studies in Tread Separation - (36 Hours)*
- 2012 – Instructed Bosch CDR Technician Course Training, New York State Police Collision Reconstruction In-Service Training, Romulus, New York - (16 Hours)
- 2012 – Coordinated and supervised data base compilation from live testing during New York State Police Collision Reconstruction In-Service training at Romulus, New York, consisting of pedestrian velocity testing and multiple surface acceleration testing
- 2011 – Human Factors in Traffic Crash Reconstruction, Institute of Police Technology and Management, University of North Florida, New York State Police Academy, Albany, New York - (40 Hours)*
- 2011 – Grade Crossing Collision Investigation, Operation Lifesaver® in association with the International Association of Chiefs of Police and CSX, Romulus, New York - (8 Hours)
- 2011 – Participated in live crash testing set-up, instrumentation, documentation, and execution, in conjunction with W. R. “Rusty” Haight of *Collision Safety Institute* during preparation for in-service module at Romulus, New York - (10 Hours)
- 2011 – Instructed Bosch CDR Technician Course Training, New York State Police Collision Reconstruction In-Service Training, Romulus, New York - (16 Hours)
- 2011 – Pennsylvania State Police Collision Reconstruction Seminar, State College, Pennsylvania Heavy Vehicle Engine Control Module Basics, Crash testing with Global Positioning System (GPS) testing and ON-Star analysis methods, Failure Analysis and Mechanical Testing, Traffic Signal Positioning and Configuration, Airborne Analysis, Crush Measurements Principles and Practices, Garmin GPS Data for Crash Reconstructionists- (24 Hours) *
- 2011 – Energy Methods and Damage Analysis in Traffic Crash Reconstruction, Institute of Police Technology and Management, University of North Florida, New York State Police Academy, Albany, New York - (40 Hours)*
- 2011 – Bosch Crash Data Retrieval Analyst Course, Collision Safety Institute, New York State Police Academy, Albany, New York - (40 Hours)*



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- 2010 – Crash Data Retrieval (CDR) User’s Summit - Houston, Texas (Presenter/Participant) - (20 hours)*
- 2010 – Bosch Crash Data Retrieval (CDR) Technician Train-the-Trainer Course – CDR User’s Summit - Houston, Texas - (16 Hours)*
- 2010 – Advanced MapScenes 3D Course, Forensic Mapping Services, New York State Police Academy, Albany, New York - (40 Hours)*
- 2010 – Special problems in Traffic Crash reconstruction, Institute of Police Technology and Management, University of North Florida – Orlando, Florida - (32 Hours)*
- 2010 – Instrumentation and Testing for Crash Reconstruction, Institute of Police Technology and Management, University of North Florida – Orlando, Florida - (8 Hours)*
- 2010 – Occupant Kinematics, Institute of Police Technology and Management, University of North Florida – Orlando, Florida - (8 Hours)*
- 2010 – Instructed Vericom VC4000DAQ Training, New York State Police Collision Reconstruction In-Service Training, Romulus, New York - (16 Hours)
- 2010 – Vehicle Autopsy Training, Comprehensive Motor Vehicle Services and Consulting, New York State Police Academy, Albany, New York - (40 Hours)*
- 2009 – Spring - New York State Traffic Accident Reconstruction Society (NYSTARS) Collision Reconstruction Seminar, IBM Watson Research center, Tarrytown, New York. Effective Courtroom Presentation - (16 Hours) *
- 2009 – Pedestrian/Bicycle Accident Investigation, Institute of Police Technology and Management, University of North Florida, New York State Police Academy, Albany, New York - (40 Hours) *
- 2009 – Motorcycle Collision Investigation, Institute of Police Technology and Management, University of North Florida, New York State Police Academy, Albany, New York - (40 Hours) *
- 2009 – Bosch Crash Data Retrieval (CDR) Technician Course, Collision Safety Institute, New York State Police Academy, Albany, New York - (8 hours)*
- 2009 – Bosch Crash Data Retrieval (CDR) Analyst Course, Collision Safety Institute, New York State Police Academy, Albany, New York - (32 Hours)*
- 2008 – Vericom™ VC3000/VC4000 Brake Test Computer Familiarization, Batavia, New York – (16 Hours)*
- 2008 – Level I Fingerprint Training – New York State Department of Criminal Justice Services (DCJS), Albany, New York - (40 Hours)



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- 2008 – Post Blast Investigator School - U.S. Department of Justice, Federal Bureau of Investigation, Batavia, New York - (20 Hours)
- 2008 – Basic Crime Scene Photography - New York State Department of Criminal Justice Services (DCJS), Albany, New York - (40 Hours)
- 2008 – Crime Scene Technician - New York State Department of Criminal Justice Services (DCJS), New York State Police Academy, Albany, New York - (80 Hours)
- 2007 – Advanced Commercial Motor Vehicle Crash Investigation - Institute of Police Technology and Management, University of North Florida, New York State Police Academy, Albany, New York - (40 Hours)*
- 2007 – Traffic Crash Reconstruction Update - Institute of Police Technology and Management, University of North Florida, New York State Police Academy, Albany, New York - (40 Hours)*
- 2007 – Advanced Traffic Accident Reconstruction with Microcomputers (WINCRASH) - Institute of Police Technology and Management, University of North Florida, New York State Police Academy, Albany, New York - (40 Hours)*
- 2007 – Advanced Commercial Motor Vehicle Crash Investigation - Institute of Police Technology and Management, University of North Florida, New York State Police Academy, Albany, New York - (40 Hours)*
- 2006 – Spring - New York State Traffic Accident Reconstruction Society (NYSTARS) Collision Reconstruction Seminar, IBM Watson Research center, Tarrytown, New York. Friction on Contaminated Roadways, Critical Curve Speed Analysis- (16 Hours) *
- 2006 – Pennsylvania State Police Collision Reconstruction Seminar, State College, Pennsylvania Pedestrian Collisions – Practical Studies and Tests, Tri-Axle Commercial Vehicle Brake Testing and Evaluation, Rollover Analysis Railroad Collision Investigation, Reconstruction Formulae Review and Update- (32 Hours) *
- 2005 – New York State Police CRU Fall Seminar, Crash Data Retrieval (CDR) – Operator’s Certification Course, New York State Police Academy, Albany, New York - (40 Hours) *
- 2003 – Managing Traffic Incidents & Roadway Emergencies – US Department of Transportation, Rochester, New York - (8 Hours)
- 2000 – Electronic Total Work Station Training and Certification, New York State Police Academy, Albany, New York - (40 Hours)
- 2000 – Commercial Vehicle Accident Reconstruction – Maryland State Police, New York State Police Academy, Albany, New York - (40 Hours)
- 2000 – Pedestrian/Bicycle Accident Investigation – Institute of Police Technology and Management, University of North Florida, New York State Police Academy, Albany, New York - (40 Hours)



- 2000 – Investigation of Motorcycle Accidents - Institute of Police Technology and Management, University of North Florida, New York State Police Academy, Albany, New York - (40 Hours)
- 2000 – New York State Police Spring Reconstruction Seminar, New York State Police Academy, Albany, New York. Presenting Court Room Testimony- (20 Hours)
- 2000 – Lethal Weapon: DUI Homicide Workshop – US Department of Transportation, New York State Police Academy, Albany, New York - (40 Hours)
- 1999 – New York State Police Spring Collision Reconstruction Seminar, New York State Police Academy, Albany, New York. New York State DMV Inspection Regulations and Vehicle Inspector Course, Tires – Causative Factor or Not, Speed Analysis through Crush- (16 Hours)
- 1999 – New York State Police Fall Reconstruction Seminar, New York State Police Academy, Albany, New York. Human Factors – Perception/Reaction Times, Presenting Court Room Testimony, Handling Critical Incident Stress- (16 Hours)
- 1998 – New York State Police Spring Collision Reconstruction Seminar, New York State Police Academy, Albany, New York. Generic Case Preparation, Interview Techniques and Court Room testimony, Criminal Court Case Preparation- (5 Hours)
- 1998 – Civil Court Case Preparation, New York State Police Academy, Albany, New York - (40 Hours)
- 1998 – Electronic Total Work Station Training and Certification – Washington State Police, New York State Police Academy, Albany, New York - (40 Hours)
- 1997 – At Scene Traffic Accident /Traffic Homicide Investigation – Institute of Police Technology and Management, University of North Florida - (80 Hours)
- 1997 – Advanced Traffic Accident Investigation - Institute of Police Technology and Management, University of North Florida - (80 Hours)
- 1997 – Traffic Accident Reconstruction - Institute of Police Technology and Management, University of North Florida – (80 Hours)
- 1997 – Computerized Collision Diagramming, New York State Police Academy, Albany, New York - (40 Hours)
- 1997 – Electronic Total Work Station Training – Maryland State Police, New York State Police Academy, Albany, New York - (40 Hours)
- 1985 – New York State Police Academy – Albany - 24 weeks
Trained in Criminal procedure Law, Penal Law, Vehicle and Traffic Law, Arrest Procedures and Tactics, DWI Enforcement, Accident Investigation, Emergency Vehicle Operation and Control, Breathalyzer Operator Certification, and First Responder medical response.



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Regarding Additional Education and Training, from previous pages, * Denotes Accreditation Commission for Traffic Accident Reconstruction (ACTAR) accredited course or program.

INSTRUCTOR CERTIFICATIONS / ASSIGNMENTS

2012 – Present - Electric Vehicle Safety for Emergency Responders, Troop “E” In-Service Training

2011 – Present – Certified Trainer / Mentor, Bosch Crash Data Retrieval (CDR) Technicians Course Instructor, Romulus, New York

2010 – Present - Vericom™ Brake Testing Computer Training and Certification Course Instructor, Romulus, New York

2000 – 2009 – New York State Police Computer Collision Diagramming Instructor - New York State Police Academy, Albany, New York

1998 – Present – Collision Investigation Instructor, Basic School Recruit Training – New York State Police Academy, Albany, New York

PROFESSIONAL ORGANIZATIONS

2006 – Present - New York State Traffic Accident Reconstruction Society (NYSTARS)

2016– Present – Accreditation Commission for Traffic Accident Reconstruction (ACTAR)

EMPLOYMENT HISTORY

2021 – Present – SENIOR INVESTIGATOR – NORTHEAST CRASH DYNAMICS, LLC
Responsible for the investigation and reconstruction of motor vehicle collisions involving property damage, serious physical injury and death; including the use of applicable theories in collision reconstruction

2016 – 2021 – SENIOR INVESTIGATOR – AVALON ACCIDENT RECONSTRUCTION UNIT
Investigated and reconstructed motor vehicle collisions involving property damage, serious physical injury and death, which included the use of applicable theories in collision reconstruction

2013 – 2016 – INVESTIGATOR – FULL TIME COLLISION RECONSTRUCTION UNIT
Appointed to Rank March 28, 2013. Continued in same capacity until retirement September 29, 2016

2004 – 2013 – STATE TROOPER – FULL TIME COLLISION RECONSTRUCTION UNIT
Former assignment was in Forensic Identification Unit, Collision Reconstruction, with primary duties being to coordinate the Collision Reconstruction Unit within the ten County area of Troop

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“E.” Current assignment includes reconstruction duties and the additionally the Forensic Mapping of major crime scenes within the Troop “E” area. Attend national seminars and summits, as a representative of the New York State Police, with occasional speaking engagements as requested.

1997 – 2016 – STATE TROOPER – COLLISION RECONSTRUCTION

On call for responding to investigate and reconstruct collisions that involve Police and Municipal vehicles, fatal collisions, serious personal injury collisions, DWI collisions, and other collisions that involve the potential for criminal prosecution. Assist and investigate outside police department investigations. Prepare reports and assist District Attorneys in the preparation of cases for trial involving collisions. Testify as an expert witness in criminal and civil trials and administrative hearings in regards to these investigations.

1985 – 2004 – STATE TROOPER – PATROL DIVISION

Responsible for criminal and non-criminal investigations, including felonies and lesser offenses, domestic disputes, outside agency assistance in investigations, traffic, and DWI Enforcement. Duties further include investigations, arrests, crime scene processing, and Courtroom testimony in the prosecution of cases. Dispatching and the coordination of road patrol units while assigned to desk operations. Assigned to Troops D and E.

1978 – 1985 – GENERAL ELECTRIC / BLACK AND DECKER

Housewares Division, Brockport, New York
Duties included General Assembly, Materials Disbursement and Management, Quality Control, Fabrication and Production, and Hazardous Materials containment, recycling, and disposal.

EXPERIENCE – COLLISION RECONSTRUCTION

Investigation of motor vehicle collisions and the prosecution of related traffic offenses since 1985, averaging between 40 - 60 motor vehicle collisions a year, including collisions involving DWI, speed, medical causation, and numerous other causes.

Investigation and Reconstruction of motor vehicle collisions, motorcycle collisions, commercial vehicle collisions for the New York State Police, Monroe County Sheriff’s Office, Greece Police Department, and Rochester Police Department since 1997, including various County Sheriff’s Offices and Municipal Police Departments within the ten county confines of Troop “E.”

Conducting and participating in testing of theories applied to accident reconstruction, determining acceleration, and deceleration rates of vehicles involved in collisions, speed estimates of vehicles, and vehicle collision dynamics.

Processing of crime scenes, and collision scenes, including securing, measuring, and photographing of evidence. Investigation of major criminal collision cases, including Police vehicle, and Municipal vehicle collision cases.

Expert Testimony provided toward prosecution in cases ranging from property damage collisions in local criminal court, to criminal prosecution and grand jury actions involving criminal offenses stemming from collision investigations. Testified in Department of Motor Vehicle Administrative Hearings for fatal



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collisions, and driving while intoxicated refusal hearings. Topics of court recognized expert testimony include Speed Analysis, Vehicle Dynamics in Collisions, Occupant Kinematics, and Positioning.

May 11, 2009, received New York State Police Superintendent's Commendation Award for collision reconstruction investigation leading to two nationwide voluntary recalls of 228,910 model years 2001-2002 Hyundai Elantra automobiles for a defect in the supplemental restraint system.

January 25, 2010, presented at Crash Data Retrieval User's Summit, Houston Texas, representing New York State Police as featured speaker on the topic of pursuing investigations and evidence through inter-agency cooperation to unanticipated outcomes, including potential vehicle safety recalls.

Published article in Volume #5, Issue #2, p. 92, *Collision, The International Compendium of Crash Research*, Collision Publishing, ISSN: 1934-8681. "The Butterfly Effect" outlined collision reconstruction as it pertains to research of safety issues and the resultant coordinating with appropriate controlling governmental authority for initiating remedial action to prevent continued loss of life.

Actively assist in coordinating and development of recurring course of in-service instruction for New York State Police Collision Reconstruction Unit (CRU) on an annual basis at Romulus, New York. In April 2016, assisted in coordinating first live crash testing performed by New York State Police Collision Reconstruction Unit at In-Service. Duties involved procuring vehicles to test, function testing of delivery system for dynamic crash testing, and reconstruction of staged crashes for classroom presentations.

Responsible for the review of reconstruction reports of other Reconstructionists within the 10 County Troop "E" geographic areas, as well as statewide peer review of significant criminal collision investigations.

Accreditation Commission for Traffic Accident Reconstruction (ACTAR) - May 2016