

**OBJECTIVE:**

The application of professional experience with tutorial and academic preparation allowing for professional growth and recognition.

**PROFESSIONAL EXPERIENCE:**

- **Accredited Traffic Accident Reconstructionist**, ACTAR #4223, The Accreditation Commission for Traffic Accident Reconstruction, certificate issued August 26, 2022.
- **The Crash Lab, Inc., Hampton, New Hampshire, February 2023 to present**  
Accredited Traffic Accident Reconstructionist, providing services to insurance companies, law firms and governmental agencies that require motor vehicle accident reconstruction for use in civil and criminal litigation. Duties include, but are not limited to, field investigations; vehicle damage analysis, low velocity impact analysis, occupant kinematics, photography, velocity calculations, time and distance analysis, lamp filament examination, Forensic Scene Mapping, and data analysis report preparation, expert testimony, and seminar presentations.
- **Gilford Police Department, 11/2001 to 1/2023**
  - Detective Sergeant (March 2013 – January 2023)**  
Oversaw all felony level investigations within the agency. Responsible for the processing, handling, and storage of all physical evidence. Worked closely with outside criminal justice agencies to include the Belknap County Attorney, New Hampshire State Police Narcotics & Investigations Unit, New Hampshire Attorney General’s Drug Task Force, and other local departments.
  - Detective (July 2008 – March 2013)**  
Began as an interim-Detective and later assigned permanently in the Investigative Services Bureau in August 2009. Conducted criminal investigations, processed crime scenes, fulfilled the role of Evidence Technician, referred cases to the Belknap County Attorney, and handled court matters.
  - Field Training Officer (January 2005 – July 2008)**  
Was an integral component in the training of new officers, leading by example. Provided detailed training and accountability to probationary officers.
  - Patrol Officer (October 2001 – January 2005)**  
Successfully completed the Gilford Police Department’s Field Training Program and subsequently became an independent, self-sufficient Patrol Officer.

- **Accident Reconstructionist/Belknap Regional Accident Investigation Team (B.R.A.I.T.) April 2003 – January 2023**  
Responded to, and assisted with, measuring, photographing, and documenting collision scenes through use of a 3D scanner. Investigated and led numerous motor vehicle collision investigations that involved fatalities, serious bodily injuries, and often, felony-level convictions.
- **FAA Licensed Remote Pilot**, license issued April 3, 2021, valid through February 25, 2026
- **Certified FARO Focus 3D Scanner Certification**, certificate received September 28, 2018
- **Cellebrite Certified Operator (CCO) and Cellebrite Certified Physical Analyst (CCPA)**, certificate received August 31, 2018, recertified February 27, 2023, valid through February 27, 2025
- Testified in New Hampshire State Courts, with 80+ Grand Jury appearances.

#### **INSTRUCTOR:**

**Co-Instructor; B.R.A.I.T. First Responder Training**, September 16, 2022, 4 hours, Gilford Police Department, Gilford, New Hampshire. Topics included: Emergency Response and Scene Security; Roadway Evidence; Documentation of Vehicle Damage; Identification and Collection of other Physical Evidence; Identifying the Three Major Components of the Highway System; Obtaining/Interrogating Driver/Witness Statements; A.G.'s Felony DWI Protocol (2014); DMW Administrative Letter (DSMV 384); Investigating Driver Backgrounds; Vehicle Inspections and EDR Downloads; and Cell Phone Seizure, Preservation, and Examination.

#### **EDUCATION:**

##### **National Association of Professional Accident Reconstruction Specialists (NAPARS)**

***Advanced Collision Reconstruction with CDR Applications – Greg Russell***

**March 18-22, 2024, Manchester, New Hampshire**

Attended a five-day conference. Topics included: Overview of Pre-Crash and Crash-Pulse Data; Calculating delta-V from Acceleration Data; Calculating Impulse delta-V from x/y delta-V Data; Calculating PDOF from x/y delta-V Data; Adjusting x Axis delta-V to Represent Impulse delta-V; Single Equation Approach to 360° Momentum Analysis; Calculating Impact & Post Impact Velocities from CDR Data (delta-V and PDOF); Reconciling Pre-Crash and Post-Crash CDR Data; and Analyzing CDR Data in the Context of Your Reconstruction.

**CHRISTOPHER M. JACQUES**  
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### **Recon-3D**

#### ***User Group Meeting***

**February 20, 2024**

Attended a five-hour webinar. Topics included: Recon 3D Updates and Use of App; Using Recon 3D to Map Surveillance Camera Locations; Documenting Bullet Trajectories; Vehicle Scanning for Traffic Accident Reconstruction; and Challenges with Scanning Roadways.

### **National Association of Professional Accident Reconstruction Specialists (NAPARS)**

#### ***Determining Vehicle Speed from an Audio Recording***

***Alan Moore***

**February 16, 2024 – Via Zoom**

Attended a two hour webinar. Topics included Basics of Extracting Frequency Information from Vehicle Noise; How Engine Frequency is Related to Vehicle Speed; How to Handle Torque Converter Slip; Advantages and Limitations of the Method; and How to Apply the Method in Practical Examples.

### **National Association of Professional Accident Reconstruction Specialists (NAPARS)**

#### ***Nighttime Crash Scene Investigation***

***Jeffrey W. Muttart, Ph.D., Driver Research Institute, LLC***

**January 4, 2024, Hampton, Connecticut – Via Zoom**

Attended a two-hour webinar. Topics included: Understanding Nighttime Visibility; The Role of Bias in Crash Investigation; Signal Detection Theory in Crash Investigations; The CAPLETS Approach, Hands-on Techniques for Scene Documentation; and Developing Best Practices.

### **National Association of Professional Accident Reconstruction Specialists (NAPARS)**

#### ***Statistics & Probability for Crash Reconstructionists – Wade Bartlett***

**Certificate received November 17, 2023**

Attended a two-hour online training webinar.

### **Driver Research Institute, LLC**

#### ***Advanced Human Factors Class - Jeffrey Muttart, Ph.D. and Timothy Maloney***

**October 16-20, 2023, Gilford, New Hampshire**

Satisfactorily completed a five-day course of instruction. Topics included: Perception-Response Time; Response to Slow Moving or Stopped Vehicles on Multilane High Speed Roads; Nighttime Recognition; Drivers' Decision Making; Research, IDRR/Response; Gap Acceptance; Pedestrian Walking Speeds; Acceleration; Forward and Backing Acceleration of Cars, Motorcycles, and Commercial Vehicles; Drivers' Responses at Green and Yellow Traffic Signals; Deceleration Choice, Reaction Time, and Probability of Stopping; and Rules of Thumb.

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**Institute of Police Technology and Management (IPTM), University of North Florida**

***Case Preparation and Courtroom Presentation***

**Certificate of Completion received September 11, 2023**

Completed a two-hour online course of instruction. Topics included: Consulting and Pre-Trial Deposition Testimony; Re-Direct and Cross Examination; Proper Courtroom Decorum; Protocols for Using Demonstrative Exhibits; Answering Difficult Questions; Avoiding Professional Pitfalls; and the Differences Between Criminal and Civil Trials.

**Pix4D**

***PIX4Dmapper In-Depth Online Course***

**Certificate of Completion received September 6, 2023**

Completed a 12-hour online course of instruction. Topics included: Managing Processing Options; Capturing Images by Hand with an RGB Camera; Creating a Digital Terrain Model (DTM); and Capturing Thermal and Multispectral Images.

**Pix4D**

***PIX4Dmapper Essentials***

**Certificate of Completion received August 29, 2023**

Satisfactorily completed a 12-hour online course of instruction. Topics included: RGB Images; Ground Sampling Distance; Ground Control Points; Editing; and Measuring from Images.

**National Association of Professional Accident Reconstruction Specialists (NAPARS)**

***Introduction to Digital Video Analysis for Crash Reconstruction – Joe Warren***

**June 16, 2023**

Attended a two-hour online webinar. Topics included: Evolution of Video Evidence in Crash Investigation; Expectations and Limitations of Video Evidence; Overview of the Principles of Speed Analysis from Video and the Math Involved; Understanding Frame Rates and Perspective; Fixed vs. Moving Video; Mapping Scenes to Account for Existing Video Evidence; How Digital Video is Made, Stored, and Timed; Understanding MetaData; Software Requirements for Speed Analysis; Crash Course Training for Software Usage; External Testing and Verification Methods; and Real-World Case Examples.

**Northwestern University Center for Public Safety**

***Crash Data Retrieval Analysis and Applications Course***

**June 5-9, 2023, Schaumburg, Illinois**

Completed a 40-hour course of instruction. Topics included: Delta-v and Closing Speed Analysis; PDOF Calculation and Applications; Comparison of Pre-Crash Parameters, Including Vehicle Speed; Throttle Position, Engine Speed, and Brake Application; Methods of Comparing Internally Recorded Information; Using CDR Data in Reconstruction; Airbag Deployment – How, Why, and When Airbags and Related Systems Deploy; Crash Sensing and Critical Timelines; Crash Pulse Recording Methodologies; Delta-v Recording Variations; Calculating PDOF from CDR Data; NHTSA CFR49 Part 563 Rule; Pre-Crash Data Sources and Impacts on Accuracy; and Discussion of CDR Supported Vehicle Systems.

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**Northwestern University Center for Public Safety**  
***Crash Data Retrieval System Operator's Course***  
**June 1-2, 2023, Schaumburg, Illinois**

Completed a 16-hour course of instruction. Topics included: CDR System Components and Software Requirements; Installation/Configuration of the CDR Software; Determining if a Vehicle is CDR Supported and which Modules may be Accessed by the CDR System; Selecting the Best Method of Access – DLC Connection, Direct to Module, and Bench-Top Access; CDR System Components; Software Operation; Trouble-shooting Common Error Messages and On-Vehicle Connections, Saving CDR Imaged Data; Report Generation; Basic Awareness of Legal Issues Surrounding Access; Introduction to Back-Powering Methods; Required Tools for Accessing Modules; and Discussion of Hyundai, Subaru, and Kia EDR Tool Operations and Retrieved Data.

**FARO Technologies**  
***FARO Academy: FARO Zone 3D Essentials***  
**Certificate of Completion received May 12, 2023**

Attended an online course of instruction.

**FARO Technologies**  
***FARO Academy: FARO Zone 3D Power Tools for Crash***  
**Certificate of Completion received May 12, 2023**

Attended an online course of instruction.

**FARO Technologies**  
***FARO Academy Workshops***  
**May 10-12, 2023**

Attended nine online courses of instruction. Topics included FARO FotoPoints Deep Dive; How to Perform Crush Analysis in Zone; Using EDR Data in Zone; Using Drones in Crash Scene Data Gathering; Building Momentum; What's New in FARO Zone; and Merging Drone and Scanner Data.

**National Association of Professional Accident Reconstruction Specialists (NAPARS)**

***Ignition Cyclopedia – Kent Boots***  
**May 5, 2023 (via Zoom)**

Attended a two-hour online webinar.

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**WREX 2023 (World Reconstruction Exposition)**

*Sponsored by 23 crash reconstruction associations from around the world*

**April 17-21, 2023**

Attended a five day event. Topics included: Keynote address by Wade Bartlett and Lou Peck; A Historical Perspective on Technology in Reconstruction; Collision Reconstruction is Evolving; Toyota Tech Stream Software VCH Research and Testing; GPS Data: Sources, Analysis, and Presentation; Commercial Motor Vehicle Collision Mitigation Systems; EDR Accuracy of Modern Vehicles; HVEDR Update; Working with GoPro and GPS Data; Automotive Test Equipment, DTCs and Pre-Crash Data; Accessing Toyota Event/Camera Data through Tech Stream Software; Facts Don't Sell Themselves: Persuading Your Audience with Visual Aids; The Importance of Tires in Accident Investigation; Introduction to Forensic Acquisition of Mobile Devices in Accident Reconstruction; Determining the 85<sup>th</sup> Percentile Speeds from Traffic Video; Methods for Establishing Motorcycle Impact Speeds; Simulated Look at Effects of Pedestrian Lateral Velocity; Learning the Proper Methodologies from the Mistakes of Others; Guardrail End Terminal Crash Reconstruction; Time v. Distance Analysis in Crash Reconstruction; Analysis of Sideswipes and Glancing Impacts; Accurate Measurements by Combining Images or Video with Laser Scans; Next Generation GM EDRs; ATV Collision Investigations; Retroreflective Material Analysis; Bicycle/E-Bike Performance; Use of Mobile Lidar in Collision Reconstruction; Forensic Video Analysis; Photometry for Forensic Investigators; ADAS and Advanced Safety Systems in Passenger Vehicles; Injury Biomechanics in Accident Reconstruction; Injury Reconstruction with Biofidelic Dummy; Mobile Device/Infotainment System/Chip Swap Forensics; Comparison of Vehicle Drag Factors on Various Surfaces; OEM Representation; Semi-Trailer Underrides-Turning Tragedy into Advocacy; Distracted Driving Investigations; Frozen Speedometer Reliability; One Full Day of Crash Testing; and Crash Test Review. Participant in Indoor Shutter Study.

**National Association of Professional Accident Reconstruction Specialists (NAPARS)**

*Human Factors – Dr. Susan Lantz, Lantz Biomechanics*

**Certificate received April 4, 2023**

Attended a two-hour online webinar.

**Recon-3D**

*User Group Meeting*

**March 21, 2023**

Attended a four-hour webinar. Topics included: Recon-3D Update; Recon-3D at Crime and Crash Scenes; Recon-3D for use in Bullet Trajectory Documentation; Accuracy and Comparisons to the RTC360; Bloodstain Pattern Documentation & Area of Origin Analysis with Recon-3D; Use of Targets; Comparison of Recon-3D with Faro Scanner; Accuracy and Repeatability of Mobile Phone Lidar Capture; Scanning Techniques for Tractor Trailer Scanning; Remote Viewing with A-Power Mirror; and Comparison of Recon-3D to Terrestrial Laser Scanner Data.



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***Aerial Photogrammetry in Crash Reconstruction – Andrew Klane***

**Certification of Completion received March 17, 2023**

Attended a two-hour online training class. Topics included Overview of Aerial Photography using UAVs and Pix4D.

**iINPUT-ACE**

***Operator: Intro to Axon Investigate and Projects – Module 1***

**March 6, 2023**

Attended a four-hour live training webinar, Course One in the Operator Certification track. Topics included: Adding and Organizing items in the File List; Interrogating, Marking Frames, Creating Subclips, Exporting, and Stitching; Introduction to Frame Rate; Date and Time Offsets and Projects; and Metadata and Filtering.

**iINPUT-ACE**

***Operator: Processing and Basic Reporting – Module 2***

**March 7, 2023**

Attended a four-hour live training webinar, Course Two in the Operator Certification track. Topics included: Frame Rates; Codecs and Containers; Proprietary Codecs; Proprietary Players; Identifying Video Files; Advanced Processes – Concatenate (Stitch Together) and Canvas Editor; Projects; Case Organization: Entering Date/Time Offsets; Using and Adding Metadata; and Filtering and Sorting Data in Large Cases.

**ai2-3D Forensics**

***Zero to Hero in Cloud Compare- Eugene Liscio, P.Eng***

**February 6 & 7, 2023**

Attended an eight-hour training webinar and successfully completed assignments. Topics included: Interface and Navigation Display Options; Units, File Types to Import; Point Picking-Measurements; PointList (saving); Van Project-Segmentation; Subsampling; Merging Point Clouds; Exporting-Selecting!; Subsampling Points on Mesh; Leveling with 3 Points; Translation Tools; Edit-Apply Transformation; Scaling; Cross Sections-Extract as Polyline, Export as Cloud; Draw Polyline; Scalar Fields (Custom Ramps); Assign Height to Scalar, UTM; Height Ramp to RGB and Removing Color; Filter Points by Value; Ambient Occlusion; Unwrap Tire; Meshing Skull (Create Normals); Ellipser App; Virtual Broom; CSF Filter; Normal Distance Measurement Against a Plane; Viewpoints-Animation Plugin; Registration; Cloud Comparisons-Best Fit Plane; and Assignments.

**FARO Technologies**

***FARO Virtual Workshop: Crash Reconstruction Series***

**Certificate of Completion received March 19, 2021**

Attended a five week (10 hour) virtual workshop. Topics included Forensic Workflows using FARO Zone 3D Advanced Software in the creation of a 2D Diagram; Momentum Analysis Report; and 3D Animated Reconstruction with EDR Data.

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**Gilford Police Department**  
***Practical Defensive Driving***

**October 20, 2020 and November 1, 2013, Gilford, New Hampshire**

Completed an 8-hour Advanced Defensive Driving course. Topics included: Unique Characteristics of Law Enforcement Driving; Identification of Faulty Driving Attitudes; Calculating Reaction Distance from Reaction Time at a given Vehicle Speed; Problems Caused by Driver Fatigue; Advantages of Proper Seating Position; Vehicle Headrests as Restraining Devices; Hydroplaning; Primary Hazards of Night Driving; Under and Over Steer; Proper Passing Procedures; Two-Second Plus Rule for Following Distance; and Seat Belts.

**Primex – New Hampshire Risk Management Exchange**  
***Primex<sup>3</sup> Education & Training Program - Collision Avoidance***  
**July 24, 2020 via online training**

Completed a pre-recorded webinar designed to highlight key concepts in vehicle collision avoidance. Topics included Identification of three Good Driving Habits; Assessing the Needs and Techniques for Proper Backing; Importance of Proper Following Distance and its Effect on Collision Avoidance; Importance of Steering in Collision Avoidance; How Seat Belts Work and their Role in Collision Avoidance; Explaining the Different types of Distracted Driving and How they Impact a Driver's Ability to Safely Operate a Motor Vehicle; and How Drowsiness and Fatigue Negatively Impact a Driver's Ability to React to Potential Hazards while Operating a Vehicle.

**Pennsylvania State Police**  
***Collision Reconstruction Seminar 2019***  
**November 5-7, 2019, Gettysburg, Pennsylvania**

Attended a three-day conference. Topics included: Rollover; Crash Test Traffic Stop Positioning; Preservation of Crucial Evidence in Commercial Vehicle Crashes; Optical Illusions in Crashes; Video Evidence: Variable Refresh Rates and Reverse Projection; Advanced Momentum; Distracted Driving and Crash Risk; EDR Update; Investigative Statement Analysis; Tesla EDR: Evidence, Data, and a Case Study; Cellular Phone Mapping and Testimony; and Crash Test Data and Analysis.

**Institute of Police Technology and Management (IPTM)**  
***Investigation of Motorcycle Crashes***  
**July 29 to August 2, 2019, Gilford, New Hampshire**

Satisfactorily completed a 40-hour course of instruction. Topics included: Analyzing and Interpreting the Motorcycle Crash Scene; Determining Acceleration and Deceleration Characteristics of the Motorcycle; Analyzing and Interpreting Modes of Instability and Handling Characteristics in Motorcycles; Interpreting the Operator Factor; Reviewing Motorcycle Tires, Helmets, and other Equipment; and Using a Practical Application of Formulas (Projects).



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**New Hampshire Department of Safety**  
***New Hampshire Safety Conference***  
**May 6, 2019, Concord, New Hampshire**

Attended a one day conference. Topics included: Roadway Safety and Design; What is Happening with Road Safety in New Hampshire; Effective Messaging; What are the New Hampshire Non-Fatal Crash Trends Showing?

**FARO Technologies**  
***FARO Focus 3D Scanner Certification***  
**September 24-28, 2018**

**New Hampshire Law Enforcement Online Training Center**  
***Crime Scene Investigation & Evidence Collection (NH)***  
**September, 23, 2016**

Attended two 1-hour virtual classes. Topics included: Responsibilities of the First Responder at the Scene; Importance and Methods of Scene Documentation; Importance of Knowing When and Where Photographing Evidence is Needed; Equipment Needed for Photographing Evidence; the Importance of a Scale Diagram; Common Evidence Collection Terms and Definitions; Procedures for Packaging Evidence; and Importance of Chain of Custody of Evidence.

**National Safety Council**  
***Flagger Training Course***  
**March 27, 2013**

**New Hampshire Police Standards & Training Council**  
***Basic Digital Photography for Law Enforcement***  
**May 2-6, 2011, Concord, New Hampshire**

Attended a 40-hour course of instruction. Topics included: Digital Work Flow File Saving/Archiving; Surveillance Photography; Digital Photography – Legal Issues; Basic Operation of Digital Camera; Basic Flash Operation; Low Light Presentation; Practical Exercise – Surveillance; and Crime Scene Investigation.

**Pennsylvania State Police**  
***Collision Reconstruction Seminar 2010***  
**September 28-30, 2010, State College, Pennsylvania**

Attended a three-day conference. Topics included Nighttime Pedestrian Crash Case Study; Crash Testing; Current Issues in EDR; Tire Dynamics; Elderly Drivers; Bulletproofing your Reconstruction; Current Issues in Pedestrian Reconstruction; Sensitivity Analysis; Crash Test Data and Analysis; and Dark Distance Study Data and Analysis.

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**New Hampshire Police Standards & Training Council**

***Laser Traffic Enforcement***

**April 28, 2010, Concord, New Hampshire**

Successfully completed an 8-hour training course on operation of Laser Traffic Enforcement.

**New Hampshire Police Standards & Training Council**

***Fraud Investigations***

**May 26-28, 2009, Concord, New Hampshire**

Attended a three-day course of instruction. Topics included: Check Fraud; Computer Fraud; Confidence Games and Schemes; Credit Card Fraud; Identify Fraud; Telephone Fraud; Fraud Against the Elderly; and Search Warrants.

**Institute of Police Technology & Management (IPTM)**

***Traffic Crash Reconstruction***

**February 5-16, 2007, Concord, New Hampshire**

Successfully completed an 80-hour course of instruction. Topics included: Derivation and Origin of the Commonly used Speed Formulas; Speed of Vehicles at Impact using Conservation of Linear Momentum; Behavior of Vehicles in a Collision using Newton's Three Laws of Motion; Discussion of Commercial Vehicle and Motorcycle Dynamics in Collisions; and The Determination of Direction of Travel, Initial Contact, and Position of Vehicles on the Roadway.

**Institute of Police Technology & Management (IPTM)**

***The Field Training Officer***

**January 22-26, 2007, Concord, New Hampshire**

Successfully completed a 40-hour course of instruction.

**State of New Hampshire Department of Safety**

***Breath Test/Instrument Operator – Intoxilyzer 5000***

**October 5-7, 2004, Concord, New Hampshire**

**Institute of Police Technology & Management (IPTM)**

***Advanced Traffic Crash Investigation***

**May 5-15, 2003, Concord, New Hampshire**

Successfully completed an 80-hour training course. Topics included: Speed Estimates from Kinetic Energy, Skid Marks, Scuff Marks, and Airborne Situations; Vehicle Dynamics and Motion; Time, Distance, and Motion Equations; Conservation of Momentum Equations; Center of Mass Calculation; Vehicle Lamp Examination; Tire Damage Evaluation; and Vector Sum Analysis.

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**Institute of Police Technology & Management (IPTM)**

***At-Scene Traffic Crash Investigation***

**March 31-April 11, 2003, Concord, New Hampshire**

Successfully completed an 80-hour training course. Topics included: Physical Evidence from the Roadway; Physical Evidence from the Vehicle; The Human Element and Occupant Kinematics; Mathematical Principles and Equations; Skid Marks and Vehicle Speeds; Crash Scene Photography; Traffic Templates; Measuring and Scale Diagramming; Driver and Witness Interviews; and Information Analysis and Case Preparation.

**ADDITIONAL EDUCATION:**

**FBI-LEEDA, Gilford, New Hampshire**  
Executive Leadership Institute, March 11-15, 2019

**United States Department of Justice, Portsmouth, New Hampshire**  
Investigative Techniques (ICAC), February 27 to March 3, 2017

**FBI-LEEDA, Gilford, New Hampshire**  
Command Leadership Institute (CLI), January 30 to February 3, 2017

**FBI-NAA, Meredith, New Hampshire**  
Motivational/Leadership, June 29, 2016

**FBI-LEEDA, Sturbridge, Massachusetts**  
Supervisor Leadership Institute, October 27-31, 2014

**New Hampshire Police Standards & Training Council, Concord, New Hampshire**  
127<sup>th</sup> Police Academy, graduated March 29, 2002

**ACHIEVEMENTS:**

**FBI-LEEDA Trilogy Award, March 15, 2019**

11 Meritorious Service Awards; 1 Life Saving Award; 33 Unit Action Awards; 1 Community Service Award; 1 Leadership Award; Supervisor's Recognition of the Year Award

**ASSOCIATIONS/MEMBERSHIPS:**

- Member, National Association of Professional Accident Reconstruction Specialists, Inc. (NAPARS)
- New York Statewide Traffic Accident Reconstruction Society, Inc. (NYSTARS)