

Michael A. Knox
CURRICULUM VITAE

Contact Information:

Knox & Associates
P. O. Box 8081
Jacksonville, FL 32239
(904) 422-6245

consulting@knoxandassociates.com
<http://www.knoxandassociates.com/>

Occupation: **Forensic Consultant**

Areas of Specialty:

- Traffic Accident Investigation, Analysis, & Reconstruction
- Crime Scene Reconstruction
- Shooting Incident Reconstruction
- Bloodstain Pattern Analysis

Summary of Qualifications:

- 14+ Years Sworn Law Enforcement
- Florida Certified Criminal Justice Instructor (CJSTC) for General Subjects and Firearms
- Extensive Teaching and Presentation Experience
- Investigated/Reconstructed Hundreds of Traffic Crashes Including Approximately 70 Fatal/Life-Threatening Traffic Crashes
- Handled 350+ Death Scene Forensic Investigations
- Court-qualified Expert Witness in Bloodstain Pattern Analysis, Shooting Incident Reconstruction, and Crime Scene Reconstruction

Accreditation and Certification:

04/01 - Present **Traffic Accident Reconstructionist**
Accreditation Commission for Traffic Accident Reconstruction #1120

Professional Associations & Affiliations:

- National Association of Traffic Accident Investigators & Reconstructionists #536
- International Network of Collision Reconstructionists
- Society of Automotive Engineers
- International Crime Scene Investigators Association

Education:

All Coursework Completed - Graduation Pending **Bachelor of Science in Mechanical Engineering**
University of North Florida (Senior Standing)

Elective Coursework Includes: Advanced Solid Modeling, Robotics Engineering, and Finite Element Modeling & Analysis

Software Used: AutoCAD, MATLAB, Pro/Engineer, Mathcad, NX I-DEAS 6, LabView

Senior Design Project: Design of "Green Shuttle System" for the university's current parking shuttle bus demands; worked specifically in the area of current system research to include instrumentation and data collection on current buses within the system.

Completed 12/00 **Associate of Arts Degree (General College)**
Florida Community College at Jacksonville

Completed 12/00 **Associate of Science in Criminal Justice Technology**
Florida Community College at Jacksonville

Professional Experience:

12/94 - Present **OFFICE OF THE SHERIFF**
Jacksonville, Florida

- Detective, Traffic Homicide Unit (02/07 – Present)
- Detective, Crime Scene Unit (05/00 – 02/07)
- DUI Enforcement Officer (04/97 – 04/99)
- Patrol Officer (12/94 – 04/97, 04/99 – 05/00)

01/04 – Present **EAGLE CRIME SCENES, INC.**
Glen St. Mary, Florida
Associate Instructor for Crime Scene Training Programs

04/08 – Present **KNOX & ASSOCIATES**
Jacksonville, Florida
President and Chief Forensic Consultant

Traffic Crash Reconstruction and Related Training:

04/08 **Advanced Roadside Impaired Driving Enforcement**
Institute of Police Technology and Management, 16 hours

09/07 **Traffic Engineering for Police**
Institute of Police Technology and Management, 16 hours

03/07 **Methodology and Techniques of Crash Data Retrieval**
Institute of Police Technology and Management, 24 hours

- 05/04 **Applied Physics for Traffic Accident Reconstruction**
Institute of Police Technology and Management, 40 hours
- 08/01 **Scene Mapping Using Speed Lasers**
Institute of Police Technology and Management, 40 hours
- 06/99 **Interviewing Techniques for the Traffic Accident Investigator**
Institute of Police Technology and Management, 24 hours
- 02/99 **Traffic Accident Reconstruction**
Institute of Police Technology and Management, 80 hours
- 08/98 **Motorcycle Accident Investigation**
Institute of Police Technology and Management, 40 hours
- 08/98 **Pedestrian and Bicycle Accident Investigation**
Institute of Police Technology and Management, 40 hours
- 08/98 **Investigation & Inspection of Commercial Vehicle Accidents**
Institute of Police Technology and Management, 40 hours
- 04/98 **Advanced Traffic Accident Investigation**
Institute of Police Technology and Management, 80 hours
- 02/98 **Traffic Homicide Investigation**
Northeast Florida Criminal Justice Training Center, 40 hours
- 01/98 **AlcoSensor IV Portable Breath Testing Operator**
Office of the Sheriff, Jacksonville, Florida, 3 hours
- 06/97 **Traffic Enforcement's Role in Community Policing**
Institute of Police Technology and Management, 8 hours
- 04/97 **At-Scene Traffic Accident/Traffic Homicide Investigation**
Institute of Police Technology and Management, 80 hours
- Numerous **Special Problems in Traffic Accident Reconstruction**
Institute of Police Technology and Management
- 08/96 **DUI Case Preparation and Courtroom Testimony**
Institute of Police Technology and Management, 40 hours
- 07/96 **8th Annual Symposium on Drug and Alcohol Enforcement**
Institute of Police Technology and Management, 20 hours
- 06/96 **In-Car Video Requirements for DUI Enforcement**
Institute of Police Technology and Management, 8 hours
- 05/96 **Radar Speed Measurement**
Northeast Florida Criminal Justice Training Center, 40 hours

05/96 **DUI Detection and Standardized Field Sobriety Testing**
Institute of Police Technology and Management, 24 hours

Crime Scene Investigation Training:

11/06 **Homicide Investigation**
Institute of Police Technology and Management, 40 hours

10/06 **Advanced Bloodstain Pattern Analysis**
Institute of Police Technology and Management, 40 hours

09/06 **Crime Scene Reconstruction of Shooting Incidents**
Institute of Police Technology and Management, 40 hours

02/05 **Digital Photography for Law Enforcement**
Institute of Police Technology and Management, 24 hours

04/03 **Bloodstain Pattern Analysis**
Institute of Police Technology and Management, 40 hours

09/02 **Crime Scene Reconstruction**
Institute of Police Technology and Management, 40 hours

11/01 **Hazardous Materials/Weapons of Mass Destruction Training**
Jacksonville Regional Fire-Rescue Training Center, 40 hours

07/01 **Light Energy Applications for Law Enforcement**
Institute of Police Technology and Management, 24 hours

11/00 **Crime Scene Processing Workshop**
Institute of Police Technology and Management, 40 hours

10/00 **Crime Scene Techniques for Buried Bodies and Surface Skeletons**
Institute of Police Technology and Management, 40 hours

01/96 **Basic Evidence Technician**
Northeast Florida Criminal Justice Training Center, 40 hours

Criminal Justice Instructor Training:

06/05 **Firearms Instructor (CMS)**
Northeast Florida Criminal Justice Training Center, 44 hours

07/04 **Vehicle Operations Instructor (CMS)**
Northeast Florida Criminal Justice Training Center, 40 hours

06/03 **Field Training Officer (CMS)**
Northeast Florida Criminal Justice Training Center, 40 hours

- 04/02 **Instructor Techniques (CMS)**
Northeast Florida Criminal Justice Training Center, 80 hours
- 02/01 **DUI Instructor Update**
Institute of Police Technology and Management, 16 hours
- 03/99 **Police Traffic Radar Instructor**
Institute of Police Technology and Management, 40 hours
- 05/97 **Mobile Videotaping Instructor Course**
Institute of Police Technology and Management, 40 hours
- 08/96 **DUI Instructor Course**
Institute of Police Technology and Management, 40 hours
- 11/94 **Verbal Judo: Train the Trainer**
Institute of Police Technology and Management, 40 hours

General Law Enforcement Training:

- 05/94 **Basic Law Enforcement**
St. Augustine Criminal Justice Training Center, 762 hours
- 01/94 **Police Officer Indoctrination Training**
Northeast Florida Criminal Justice Training Center, 200 hours
- 11/94 **Street Survival Seminar**
Calibre Press, Inc., Myrtle Beach, NC, 24 hours
- 11/94 **Street Gangs: Identification and Investigation**
Institute of Police Technology and Management, 40 hours
- 03/95 **Concealment Areas Within a Vehicle**
Institute of Police Technology and Management, 16 hours
- 05/95 **Case Preparation and Courtroom Presentation**
Northeast Florida Criminal Justice Training Center, 40 hours
- 10/95 **Advanced Report Writing and Review**
Northeast Florida Criminal Justice Training Center, 40 hours
- 02/96 **Criminal Patrol Drug Enforcement**
Institute of Police Technology and Management, 40 hours
- 03/97 **Investigative Interview**
Northeast Florida Criminal Justice Training Center, 40 hours

Papers, Articles, and Publications:

Crime Scene Processing. Co-authored electronic book on crime scene processing. Authored material on bloodstain pattern analysis, shooting incident reconstruction, and crime scene reconstruction, May 2008. (<http://www.eaglecsi.com/>)

Crime Scene Reconstruction of Shooting Incidents. Paper prepared as course material for shooting incident reconstruction course, March 2007.

Bloodstain Pattern Evidence at Crime Scenes. Paper prepared as course material for bloodstain pattern evidence course, June 2005.

A Primer on the Investigation and Reconstruction of Impaired Driving Collisions. Paper prepared for Special Problems Y2K, Institute of Police Technology and Management, May 2000.

"Who Cares About Blood Alcohol Levels?" JSO Patrol News. January 2000.

"Eight Tips for Surviving Field Sobriety Exercises." Southern Lawman Magazine. Volume 2, number 2. Summer 1999.

Presentation and Instructional Experience:***08/03 – 02/07* Crime Scene Unit Training Coordinator**

Responsible for in-house training of 27 investigators. Conducted training on such topics as computerized crime scene diagramming, fingerprint processing, death investigations, bloodstain pattern analysis, bullet trajectory reconstruction, crime scene reconstruction, tire & footwear impression evidence, general crime scene investigation procedures, blood & biological evidence handling, forensic mapping, and many other topics. Served as subject matter expert in matters relating to crime scene investigations.

COURSES TAUGHT

- 04/09* **Crime Scene Reconstruction of Shooting Incidents**
Institute of Police Technology and Management, Presented 4-hour block for American Criminal Justice Association National Conference
- 03/07* **Crime Scene Reconstruction of Shooting Incidents**
Northeast Florida Criminal Justice Training Center, 40 hours
- 10/05* **Bloodstain Pattern Evidence at Crime Scenes**
Northeast Florida Criminal Justice Training Center, 40 hours
- 06/05* **Bloodstain Pattern Evidence at Crime Scenes**
Northeast Florida Criminal Justice Training Center, 40 hours

- 02/05 **Crime Scene Photography**
Eagle Crime Scenes, Inc., Valdosta, Georgia, 40 hours
- 02/04 **Basic Crime Scene Processing Techniques**
Northeast Florida Criminal Justice Training Center, 40 hours
- 02/04 **Shooting Incident Reconstruction**
Jacksonville Sheriff's Office Crime Scene Unit, 40 hours
- 01/04 **Bloodstain Pattern Analysis**
Jacksonville Sheriff's Office Crime Scene Unit, 40 hours
- 09/03 **Basic Crime Scene Investigations Procedures**
Jacksonville Sheriff's Office Crime Scene Unit, 50 hours
- 04/03 **Bullet Trajectory Reconstruction**
Jacksonville Sheriff's Office Crime Scene Unit, 20 hours
- 07/02 **Crime Scene Procedures for Police Recruits**
Northeast Florida Criminal Justice Training Center, 2 hours
- 04/02 **Crime Scene Procedures for Police Recruits**
Northeast Florida Criminal Justice Training Center, 2 hours
- 05/00 **Investigation and Reconstruction of Impaired Driving Collisions**
Institute of Police Technology and Management, Jacksonville, Florida
Presented two breakout sessions at the Special Problems in Traffic Accident Reconstruction Seminar.

AGENCIES TAUGHT

- Jacksonville (FL) Sheriff's Office
- Jacksonville Beach (FL) Police Department
- Atlantic Beach (FL) Police Department
- St. Johns County (FL) Sheriff's Office
- St. Augustine (FL) Police Department
- Jacksonville (FL) Port Authority Police Department
- Mayport (FL) Naval Station Police Department
- Clay County (FL) Sheriff's Office
- Orange Park (FL) Police Department
- Columbia (TN) Police Department
- Grady County (GA) Sheriff's Office
- Bibb County (GA) Sheriff's Office
- Turner County (GA) Sheriff's Office
- Savannah-Chatham County (GA) Metro Police Department
- Aiken (SC) Police Department

PUBLIC SERVICE APPEARANCES

02/07 to Present **Television News Appearances**

Made numerous television news appearances in reference to fatal or life-threatening traffic crash investigations; responsible for providing all initial on-scene information to members of the television and print media.

- 02/04 Crime Scene Investigations Presentation**
Mandarin High School
Presented crime scene investigations information to approximately 60 high school forensic science students.
- 08/03 Radio Talk Show Broadcast, Crime Scene Investigations**
WJGR 1320 AM, Jacksonville, Florida
Appeared as guest on hour-long Justice Coalition radio show
- 08/02 Crime Scene Investigations Presentation**
Mandarin High School
Presented crime scene investigations information to approximately 60 high school forensic science students.
- 11/01 Crime Scene Investigations Presentation**
Darnell Cookman Middle School
Presented crime scene investigations information to approximately 100 8th grade gifted science students.
- 11/98 Impaired Driving Seminar**
United States Navy, Cecil Field, Jacksonville, Florida
Presented anti-drinking and driving material for members of the navy.
- 07/98 Television News Broadcast, Impaired Driving Enforcement**
ABC Channel 25 News, Jacksonville, Florida
Appeared on news broadcast discussing impaired driving enforcement.
- 07/98 Television News Broadcast, Underage Drinking and Driving**
ABC Channel 25 News, Jacksonville, Florida
Presented material on portable breath testing instruments.

Courtroom Testimony Experience:

Circuit Court, 4th Judicial Circuit, Jacksonville, Florida

Testified in major crimes cases on matters of crime scene investigation; photography; latent fingerprint processing; firearms operation and testing. Testified on impaired driving/serious bodily injury; hearings on motions; provided technical testimony on field sobriety exercises; deposed for civil litigation; deposed in numerous criminal cases. Provided technical testimony, both in court and in deposition, regarding bullet trajectory reconstruction, bloodstain pattern analysis, luminol presumptive blood testing & processing, and crime scene processing procedures.

County Court, Duval County, Jacksonville, Florida

Testified in numerous impaired driving trials and hearings on motions; provided technical testimony about field sobriety exercises.

Department of Highway Safety and Motor Vehicles

Bureau of Driver Improvement, Jacksonville, Florida

Testified in numerous driver license suspension administrative hearings.

EXPERT WITNESS QUALIFICATIONS:

Circuit Court, 4th Judicial Circuit of Florida, Duval County:
Appointed as expert witness to conduct bullet trajectory analysis on behalf of insolvent defendant by Judge Henry Davis, *State v. John Mills*, April 2003. Testified at trial as prosecution rebuttal witness, July 2003.

Circuit Court, 4th Judicial Circuit of Florida, Duval County:
Testified as expert witness in the areas of Crime Scene Reconstruction and Bloodstain Pattern Analysis in the case of *State v. Jerrod Collins*, May 17, 2007, before Judge Mallory Cooper. The case involved the shooting death of Jason Barber who was shot and killed while seated in a vehicle. Testimony related to the position of Jason Barber when he sustained several gunshot wounds, as well as the directions from which the three shots were fired. Reconstruction was performed from photographs and documentation.

Circuit Court, 4th Judicial Circuit of Florida, Duval County:
Testified as expert witness in the areas of Bloodstain Pattern Analysis, Shooting Incident Reconstruction, and Crime Scene Reconstruction in case of *State v. Robert Shelton*, May 7, 2008, before Judge Linda McCallum. The case involved the shooting death of a woman who was shot and killed by her husband who claimed self-defense. Testimony related to the approximate location of the victim when both gunshot wounds were inflicted, as well as the approximate direction from which the shot was fired. Reconstruction was performed at the scene.

Awards and Recognition:

- 08/07, 10/08* **Heart of MADD Award** received collectively as a member of the Traffic Homicide Unit for outstanding victim support.
- 10/06* **Nomination for Officer of the Month** from Sgt. M. Monroe for reconstruction of police-involved shooting.
- 06/06* **Officer of the Month** Nominated by Sgt. T. C. Davis for crime scene reconstruction of brutal murder.
- 01/04* **Nomination for Officer of the Month** from Sgt. G. H. Davis for performance while in the Crime Scene Unit.
- 11/03* **Letter of Commendation** from Lt. M. S. Richardson for processing of homicide scene.
- 07/03* **Letter of Commendation** from Sgt. D. R. Justice for processing of homicide scene.
- 06/02* **Letter of Commendation** from Sgt. G. H. Davis for processing of homicide scene.

- 04/02* **Certificate of Commendation**, Office of the Sheriff, Jacksonville, Florida for performance during a homicide investigation.
- 02/02* **Letter of Commendation** from Sgt. J. A. Parker for processing of homicide scene.
- 09/00* **Letter of Commendation** from Sgt. G. H. Davis for participation in the handling of numerous crime scene processing calls.
- 10/97* **Letter of Commendation** from Lt. J. G. Coxen regarding participation in traffic control for a major fire incident.
- 08/96* **Letter of Commendation** from Lt. J. C. Boney regarding participation in a crowd control incident.
- 03/96* **Letter of Commendation** from Sgt. M. L. Remolde regarding performance in felony arrest.
- 01/96* **Letter of Commendation** from Lt. J. R. Ross regarding performance in a vehicle pursuit.