

15 November 2022

**SUBJECT: Curriculum Vitae of Mr. William Bailey, President, Bailey Firearm Forensics, Inc. (BFF), Rougemont NC 27572**

1. President of BFF, which is a forensic training and consulting corporation responsible for providing forensic support to attorneys, law enforcement agencies, insurance companies, private investigators, military organizations and civilian personnel in the field of forensic firearm and toolmark examination.

Some of my duties include; the examination of firearms, the examination of ammunition and ammunition components, the microscopic comparison of questioned bullets, cartridge cases and toolmarks, the restoration of obliterated serial numbers, distance determination (both gunpowder and shotgun pattern analysis), and shooting reconstruction.

**2. The following is a detailed listing of training completed with regard to firearm and toolmark examination, comparison and identification:**

- a. Completed a formal 104-week resident program of instruction for Firearm and Toolmark Examiners given by Forensic Firearms Training seminars, Inc. (FFTS). Upon completion of this training, which started in 2016, I received a certificate from FFTS authorizing me to conduct firearm and toolmark examinations. I have been an examiner in excess of 5 years.
- b. Received instruction from FFTS, Inc., in the subject of fracture analysis and shooting reconstruction. This training was conducted at the Fayetteville Police Department, Forensic Unit on 27 June 2016.
- c. Participated in a Forensic/CSI ride-along program with the Durham Forensics Unit, Durham, NC on 1 July 2016, as part of my formal training program.
- d. Attended a 5-day Advanced Shooting Reconstruction Course at Central Piedmont Community College, Huntersville, NC between the dates of 3-8 October 2016.
- e. Attended an advanced workshop dealing with firearm functionality and operability, assembly and disassembly, firearm function testing and firearm safety mechanisms given by FFTS, Inc. on 21 December 2016.
- f. Attended a Serial Number Restoration Workshop hosted by the Fayetteville Police Department Forensics Unit on 1 February 2017.

- g. Participated in a one-day workshop dealing with Gunshot Residue/Distance Determination hosted by the York County Sheriff's Office, York, SC, on 21 February 2017.
- h. Attended a three day Firearms Injury and Distance Determination Course at the Central Piedmont Community College at Huntersville, NC between the dates of 1-3 March 2017.
- i. Extensive Reloading/Handloading background and experience in handgun (pistol and revolver), rifle and shotgun cartridges.

**3. In addition to these school/courses, I have toured the following major manufacturers and exhibits within the United States in order to become familiarized with manufacturing techniques and historical technological developments:**

- a. U.S. Army Ordnance Museum, Aberdeen Proving Ground, Maryland on 12 October 2008.
- b. Atlanta Arms Ammunition Company, Villa Rica, GA, 15 November 2016.
- c. Airborne Museum, Fayetteville, NC on 4 December 2016.
- d. North Carolina Museum of History, Raleigh, NC on 2 December 2016.
- e. Sirchie Manufacturing Facility, Youngsville, NC.
- f. Attendance at numerous trade shows, firearm and ammunition shows.

**4. Professional Organizations:**

- a. International Ammunition Association (IAA)
- b. International Association of Identification (IAI)  
For North Carolina
- c. .50 Caliber Shooter's Association
- d. National Rifle Association (NRA)

**5. Education:**

- a. Bachelor of Science Electrical Engineering, San Francisco State University
- b. Formal two-year program of instruction for Forensic Firearm and Toolmark Examiner.

**6. Professional papers/books that I have written and conducted research on within this forensic science discipline. This also includes firearm related training and work within committees:**

- a. Battlefield Forensics for Persian Gulf States: Regional and U.S. Military Weapons, Ammunition and Headstamp Markings. Available in hard and soft cover as well as downloadable from Amazon. ISBN-13: 978-1138370609

**7. Visits to Crime Laboratories:**

- a. Durham Forensics Unit, Durham Police Department, Durham, NC
- b. Fayetteville Forensics Unit, Fayetteville Police Department, Fayetteville, NC
- c. ATF, Atlanta, GA
- d. York County Sheriff's Office, York, SC

**8. Seminars Attended:**

- a. Seminar For Experts and Attorneys, sponsored by North Carolina Indigent Defense Services, 4 January 2019.

In addition to the above I've also received one day of advanced firearm and toolmark identification-related training at the York County Sheriff's Office Forensics Unit at York, SC.

**9. Cases/Clients**

- a. April 2018  
Private case, attempted murder  
Services: Evaluate, from photos, whether an actor in the alleged shooting had his firearm damaged from being hit with bullet or whether he had attempted to fire his firearm with the barrel blocked.

Evaluate what a gunshot might sound like at a particular distance over lake surface.

b. May 2018

Indigent Defense, Murder

Services: Determine what type of bullet holes were in SUV of deceased passenger. Determine whether it was possible that deceased had been shot from inside SUV at close range. Attempt to determine what type of bullet was the cause of death of victim.

c. June 2018

Private case

Services: A hole in the side of a building was assumed to have been caused by the client's brother. Determined whether hole was created by a bullet or some other cause.

d. February 2019

Indigent Defense

Services: A shooting, resulting in wounding of a victim, was allegedly produced by a particular type of firearm. Based on data supplied by prosecution, evaluated how specific a determination of source of bullet was as dictated by federal database.

e. August 2019

Indigent Defense, Murder

Services: Evaluated presumed scene of shooting leading to two deceased victims, including position of shooters, firearms used and possible scenarios.

f. September 2019

Private case

Services: Evaluated shooting and damage by alleged mentally disturbed son to make determination of threat to law enforcement officers who arrived at the scene.

g. October 2019

Indigent Defense, Attempted Murder

Services: Evaluated bullet wounds allegedly caused by defendant possibly generated by a firearm, which might have been accessible to defendant. Evaluate which firearms were capable of firing projectiles retrieved from shooting victim.

- h. December 2020  
Indigent Defense, Murder  
Services: Evaluated discovery and provided attorney with facts and questions relevant to defense.
- i. August 2021  
Indigent Defense, Attempted Murder  
Services: Evaluated evidence collected by police to review evidence and determine if defendant's firearm was responsible for fired casings were produced by said firearm.
- j. November 2021  
County of Minnehaha County, S. D., Murder  
Services: Reviewed discovery and evidence provided by police agency and State police lab.
- k. December 2021  
Private case, Attempted Murder  
Services: Attempted to reconstruct shooting scene and evaluated damage to automobile to determine of damage was caused by bullet.
- l. October 2021, ongoing. (Last services to date, April, 2022)  
Indigent Defense, Murder  
Services: Reviewed discovery, evaluated firearms in evidence, evaluated various caliber shell casings found at scene, evaluated projectiles found at scene of crime as well as projectiles retrieved from victim.
- m. September 2022  
Private case, Murder  
Services: Reviewed findings of a Maryland police lab regarding photomicrographs of striae match of projectile in evidence with projectile(s) discharged from suspect's firearm.
- n. October 2022  
Representing ADA, Murder  
Services: Testing of suspect firearm to deduce distance of discharge from victim. Evaluation of ejection pattern of suspect's firearm. Evaluation and comparison of powder stippling patterns produced by firing suspect firearm and ammunition used to that of stippling patterns found on victim's body.
- o. May 2023  
Representing DA, AWITK  
Review of firearm related evidence.
- p. June 2023  
Public Defender, Murder

- Services: Review discovery.
- q. July 2023  
Indigent Defense, Murder  
Services: Review/evaluate discovery regarding spent casings from crime scene and comparison to casings generated from suspect firearm.
- r. August 2023  
Indigent Defense, Murder  
Services: Evaluation and test firing of suspect firearm to verify functionality and modification or lack of thereof firearm in question.
- s. September 2023  
Federal Public Defender, Attempted Murder  
Services: Evaluation of functionality of firearm and comparison of shell casings found at scene with spent casings from evidence firearm.
- t. January 2024  
Indigent Defense, Murder  
Services: Evaluation of multiple shell casings at scene. Evaluation of bullet Damage to residence and possible corresponding murder of inhabitant. Evaluation of evidence, which might be associated with above, listed homicide.
- u. January 2024  
Indigent Defense, Felon possession of firearm  
Services: Examination of a pistol to determine whether it qualifies as a firearm, the possession of which is prohibited by a felon; i.e., blackpowder/percussion cap type or not.