

Curriculum vitae

WILLIAM E. CONRAD

November 15, 2010

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EXPERIENCE

FORENSIC FIREARMS CONSULTANT

FREDERICKSBURG, VA – JANUARY 2003 TO PRESENT

- Provides examinations of all types of firearms to determine the functionality and proper safety operation and design. Conducts examinations to determine accidental discharge or firearm malfunction.
- Conducts in depth review of forensic reports, testimony and analysis as it pertains to firearms and toolmark evidence. Provides insight and interpretation of crime laboratory results to include preparation for witness interviews and examination of forensic experts.
- Provides training in forensic firearms examination to crime laboratory students, qualified examiners, law enforcement professionals and the legal community.
- Conducts microscopic comparisons of fired bullets and cartridge cases and related evidence.
- Conducts examination for distance determination, trajectory analysis, toolmark comparison, serial number restoration, and caliber determination by x-ray methods.
- Provides expert testimony concerning firearms and toolmark examinations.

TRAINING COORDINATOR

National Forensic Science Technology Center, Largo, FL for US Army Criminal Investigation Laboratory Ft Gilliam, GA September 2010 – May 2011

- Serve as the lead instructor for the delivery of the Firearms portion of the USACIL Firearms Examiner Training Program.
- Insure that the provided training program meets the requirements for training of the US Army as related to Firearms.
- Insure that all trainees meet all of the training performance metrics as required by the US Army.

PROVIDE MONTHLY UPDATES TO THE ASSIGNED PROGRAM MANAGER REGARDING TASK ACCOMPLISHMENTS AND IDENTIFIED ISSUES RELATED TO THE FIREARMS SECTION OF THE USACIL TRAINING PROGRAM.

TRAINING COORDINATOR

National Forensic Science Technology Center, Largo, FL for Michigan State Police, Northville, MI August 2009 –December 2010

- Serve as the lead instructor for the delivery of the Firearms portion of the Michigan State Police Training Program.
- Insure that the provided training program meets the requirements for training of the Michigan State Police as related to Firearms.
- Insure that all trainees meet all of the training performance metrics as required by the Michigan State Police.
- Provide monthly updates to the assigned program manager regarding task accomplishments and identified issues related to the Firearms section of the Michigan State Police Training Program.

FIREARMS AND TOOL MARK EXAMINER (CONTRACTOR)

MICHIGAN STATE POLICE, LANSING, MI JUNE – SEPTEMBER 2008

Performed examinations of firearms related evidence involved in criminal cases from Detroit, MI. This involved examination of fired bullets, cartridge cases and related evidence to include function and safety of firearms, microscopic comparisons of fired bullets and cartridge cases.

Subject Matter Expert (Firearms and Toolmark Examiner)

National Forensic Science Technology Center, Largo, FL May 2006 –December 2007

- Provided written training module concerning examination of firearms.
- Edited firearms related training modules to insure technical correctness.
- Provided guidance for editing team concerning firearms training.
- Provided direction and assistance in audio/visual aspects of training modules.
- Performed research concerning technical aspects of the training modules.
- Performed on site and computer assisted distance reviews of firearms training documentation.

FIREARMS AND TOOL MARK EXAMINER (CONTRACTOR)

METROPOLITAN POLICE DEPARTMENT, WASHINGTON, DC MARCH – SEPTEMBER 2006

- Conducted examinations of firearms, fired bullets, cartridge cases and related evidence to include function and safety of firearms, microscopic comparisons of fired bullets and cartridge cases, distance determination, trajectory analysis, toolmark comparison, serial number restoration, and caliber determination by x-ray methods.
- Provided expert testimony for the US Attorney's office, Washington, DC concerning firearms and toolmark examinations.

TRAINING OFFICER

Metropolitan Police Department, Washington, DC July 2004 – September 2005

- Prepared and critiques written and practical exercises and examinations concerning firearms identification, toolmark examination, muzzle-to-garment distance determination and serial number restoration for four (4) examiner trainees in various stages of training.
- Maintained training records for examiner trainees and assessed progress of each trainee in meeting stated goals and objectives.

FIREARMS AND TOOL MARK EXAMINER (CONTRACTOR)

METROPOLITAN POLICE DEPARTMENT, WASHINGTON, DC JUNE – SEPTEMBER 2003

- Conducted examinations of firearms, fired bullets, cartridge cases and related evidence to include function and safety of firearms, microscopic comparisons of fired bullets and cartridge cases, distance determination, trajectory analysis, toolmark comparison, serial number restoration, and caliber determination by x-ray methods.
- Provided expert testimony for the US Attorney's office, Washington, DC concerning firearms and toolmark examinations.

FORENSIC SCIENTIST

Computer Science Corporation, (Nichols Research Inc) (MSI) (FULL TIME) 6/1997 to 6/2003 (Casual) 6/01/2003 to 9/30/2003

- As a Forensic Specialist for the DRUGFIRE and ScenePro projects, provides specialized expertise and training in the Science of Forensic Firearm Identification and Crime Scene Investigation to law enforcement end users and software developers.
- Provided on site training, technical assistance and information on the DRUGFIRE system to international law enforcement personnel throughout Europe (Forensic Science Service, London, United Kingdom and National Military Police Laboratory, Rome, Italy) and Asia (National Police Crime Laboratory, Kuala Lumpur, Malaysia and National Crime Laboratory, Beijing, China).
- Provided technical review of design, development, and implementation of the ballistic imaging system (DRUGFIRE) and crime scene search computer system (ScenePro).
- Assisted in defining architecture requirements and establishing standards for design and development.
- Consulted with crime laboratory management and law enforcement customers regarding product feasibility and viability of product plans and designs.
- Factored emerging technologies and product support ability into design and implementation of these projects.

TRAINING OFFICER

Metropolitan Police Department, Washington, DC

Full Time 1994-1997

- Designed and implemented a 24-month resident training program to produce certifiable, court qualified firearms examiners for the Firearms Identification Unit of the MPD, Washington, D.C.
- Prepared and critiqued all written and practical exercises and examinations for six examiner trainees for the duration of their training.
- Designed and implemented a 6-month training program designed to train firearms technicians in areas of firearms test firing, bullet and cartridge case recovery, and computer imaging and comparison of cartridge cases.
- Prepared and critiqued all written and practical exercises and examinations for three firearms technician trainees for the duration of their training.
- Maintained training records for examiner trainees and assessed progress of each trainee in meeting stated goals and objectives.

FORENSIC SCIENTIST SUPERVISOR

Full Time 1982-1994

Western Regional Lab, Division of Forensic Science, Roanoke, VA

- Supervised the firearm identification section that provided laboratory service to a 54 county area. This included case distribution, quality assurance, and resource management and control.
- Conducted examinations of firearms and related evidence to include microscopic comparisons of fired bullets and cartridge cases, distance determination, trajectory analysis, toolmark comparison, serial number restoration, and caliber determination by x-ray methods.
- Provided expert testimony throughout the Commonwealth of Virginia concerning firearms and toolmark examinations.
- Conducted training for law enforcement personnel on matters pertaining to forensic science, firearm identification, and crime scene processing.
- As Adjunct Professor, Virginia Western Community College, and New River Community College, acted as instructor in forensic science courses teaching firearms examination.

FIREARMS AND TOOLMARK EXAMINER

Full Time 1977-1982

U.S. Army Crime Laboratory-CONUS

- Conducted examinations of firearms and related evidence to include microscopic comparisons of fired bullets and cartridge cases, distance determination, trajectory analysis, toolmark comparison, serial number restorations, and caliber determination by x-ray methods.
- Provided on-site crime scene support for major crimes involving firearms evidence.
- Provided expert testimony concerning firearms and toolmark examinations.
- As Training Officer, taught firearms identification techniques to individual students through a 2-year training program.

SPECIAL AGENT

Full Time 1968-1977

U.S. Army Criminal Investigation Command

- Investigated felony offenses involving military personnel or U.S. Army concerns.
- Provided written reports of all investigative activity to include crime scene processing, evidence retrieval and laboratory analysis requests.
- Performed Physical security surveys on selected military sites to determine external and internal threat potentials.
- Conducted interviews and interrogations of victims, witnesses and suspects involved in criminal investigations.
- Processed major felony crime scenes which included: identification and evaluation of all physical evidence, photographing the crime scene, processing for latent fingerprint evidence, preparation of sketches and diagrams of the scene, documentation of all physical evidence.
- Provided training for junior agents and other military law enforcement personnel.
- Provided testimony concerning the results of criminal investigations in Federal courts and Courts-Martial.
- During this period, additional duties included Evidence Custodian, assistant operations officer, and Senior Agent.

Certifications

Certified by Department of the Army as Firearms and Toolmark Examiner 1979.
Certified by Commonwealth of Virginia as a Forensic Scientist 1982.

Professional Associations

Distinguished Member, Association of Firearm and Toolmark Examiners.
Coordinator, Standardization/Training Committee
Glossary Sub-committee
Training Manual committee

Education

NORTHERN VIRGINIA COMMUNITY COLLEGE
D.A.S., Criminal Justice

VIRGINIA WESTERN COMMUNITY COLLEGE,
Computer Science

Additional Course Work

Firearms and Toolmark Examiner, Two year Resident Course, U.S. Army Crime Laboratory
Specialized Firearms Training Course, FBI Academy, Quantico, VA
Wound Ballistics Course, Armed Forces Institute of Pathology, Washington, DC
Gunpowder and Primer Residue Course, FBI Academy, Quantico, VA
Gunpowder and Primer Residue Course, MD and FL (Contract Instructor for FBI)

Gunpowder and Primer Residue Course, MD (Contract Instructor for BATF)
Wound Ballistic Course, Armed Forces Institute of Pathology, Washington, DC
Toolmark Identification Seminar, Chicago Police Department
Armorer's Training, Smith & Wesson, SIG, Glock, Beretta, Ruger
Association of Firearms & Toolmark Examiners (AFTE) Annual Training Seminars, 1978, 1979, 1980, 1983, 1985, 1989, 1994, 1995, 1996, 1997, 1998, 1999, 2000, 2001
Criminal Investigations Basic Agent's Course, USACIDC, Ft Gordon, Ga
Drug Investigations, DEA, Ft Gordon, GA
Logistics Management Investigations, USACIDC, Ft Lee, VA
Sex Crimes Investigations, Metropolitan Police Department, Washington, DC
NCO Academy, US Army Europe

Court Qualifications

Federal District Courts: Virginia, North Carolina, District of Columbia, Puerto Rico, Illinois
Military Courts: New Jersey, North Carolina, Texas, California, Kansas, Kentucky, Germany
State Courts: Virginia (excess of 300 testimonies), New Jersey, Florida, Illinois, District of Columbia, Pennsylvania, Tennessee, Connecticut, Maryland, West Virginia, North Carolina, Vermont.