

Jeremy S. Woods

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My professional life has been dedicated to a career in the fields of security, intelligence, law enforcement and forensic science. I've worked for both the federal and local governments in the public sector and for both large and small businesses in the private sector. While working for the military I developed route, data overlay, and targeting maps for use in combat, targeting enemy combatants and terrorists. I believe my experience as an intelligence and topographic analyst while deployed to Iraq has allowed me to develop the ability to fuse multiple technical disciplines, from forensic science to geographic information systems, into the work I now perform as a private investigator at Stidham Reconstruction and Investigation.

## **Court Appearances & Assistance:**

### **2019**

- Commonwealth vs. Noah Lane (Testified as expert witness)
- Kim Corry vs. McDonald's (Mediation presentation)
- Susan Hoover vs. JT Lumber Company (Mediation presentation)
- Russell & Laura Murphy vs. Mykhol Hon (Mediation presentation)
- Randy Davis vs. Walmart (Mediation presentation)
- Canas Dean Napier (Mediation presentation)

### **2018**

- Theresa Mills vs. Kentucky State Police (Mediation presentation)
- Rachel Marshall vs. Tim Short (Mediation presentation)
- Rita Bowling vs. Walmart (Mediation presentation)
- David Jackson & Rachel Farris (Mediation presentation)
- Manious vs. Falcon Ridge Apartments (Mediation presentation)

### **2017**

- Evon Foister Jr. vs. Evan Bonifas (Mediation presentation)
- Ruth Holt vs. Applebees (Mediation presentation)
- JoAnn Charles vs. Brewer's Laundromat & Charles Brewer (Mediation presentation)
- Commonwealth vs. David Hughes (Multimedia assistance)

### **2016**

- Estate of Samson Calendar vs. Knox EMS & Kevin French (Mediation presentation)
- Commonwealth vs. William Bowling (Testified as expert witness)

## 2015

- Brenda Wallace vs. Walmart (Mediation presentation)
- Commonwealth vs. Charles Wilhere (Multimedia assistance trial)

## 2014

- Coomer vs. CSX (Multimedia assistance at trial)

## **Education & Training:**

### 2019

#### Institute of Police Technology and Management

- *Crime Scene Reconstruction (40 hrs)*
  - Dynamics of Reconstruction
  - Positive and Negative Reconstruction
  - Crime Scene Reconstruction using the Scientific Method
    - Hypothesis
    - Predictions
    - Testing
    - Results
    - Opinion/Conclusion
    - Scientific Evidence
    - Non-Scientific Evidence
  - Reviewed case studies of real crime scenes
  - Bloodstain Interpretation and analysis
    - Participated in determining the angle of impact applying the Area of Origin and Convergence of Origin methods of a created blood stain and interpreted the various bloodstain patterns
  - Glass Fractures
    - Radial and Concentric Fractures
    - Primary Fractures
    - Secondary Fractures
    - Fractures caused by bullet and determining entrance and exit and angle
    - Heat Fractures
    - Blunt Instrument Fractures
    - Preservation of glass fragments
- *Bloodstain Interpretation (40 hrs)*
  - Reviewed various real case studies of crime scenes and bloodstain patterns
  - Participated in lab testing creating various bloodstain patterns with various weapons (i.e. impact stains, drip stains, blood in blood, transfer stains) and examining the dynamics of liquid blood
  - Interpreted various bloodstain patterns
  - Participated in determining the area of impact by applying the area of origin and convergence of origin methods to various bloodstain patterns created in lab testing

- Exit project consisted of reviewing a case study and interpret the bloodstain patterns in determining whether the investigation was a homicide or suicide
- *Shooting Incident Reconstruction (40 hrs)*
  - Participated in firearms testing to create ballistic trajectories in various objects to simulate real world situations to perform scientific analysis. I was trained in and utilized the following methodologies to determine bullet trajectories:
    - Rod method
    - Rod and string method
    - Retrieve projectile (accomplished)
    - String method for point of reference on fractured glass
    - Entrance and exit determination
    - Laser method
    - Angle method
  - Photography of trajectory analysis using a laser
  - Firearm Injuries
    - Determination of entrance and exit wounds
    - Distance
      - Soot/stippling distribution
      - Angle and line of fire
    - Trajectory factors
      - Marginal abrasions
      - Points of reference
    - Damage factors
      - Autopsy analysis
      - What was victim capable of doing after injury
    - Weapons factors
      - Projectile analysis
      - Weapon operational analysis
      - Ascertain trigger pull
  - Report preparation
  - Trial testimony, preparation, and Daubert standards
  - Blood Volume Determination
  - Fire Burn Patterns
    - Point of origin
    - Glass fracture patterns
    - Direction
  - Exit project of applying crime scene reconstruction scientific method to an assigned case study and devising an opinion/conclusion.

#### Public Agency Training Council

- *Death & Homicide Investigation (40 hrs)*
  - Homicide& Violent Crime Behaviors
  - Victimology
  - Crime Scene Observation

- Investigative Assessment Process
- Sexual Deviancy
- Timeline Development
- Offender Profiles
- Long Term Unsolved Cases
- Equivocal Death Investigations
- Autoerotic Death investigations
- Management of Case Information
- Autopsy, Cause of Death & Manner of Death
- Bloodstain Pattern Analysis

#### Forensic Training Group

- *Human Factors in Traffic Crash Investigation*
  - Determining and justifying a minimum visibility distance
  - Finding an appropriate perception-response time
  - Examining changes in driver response time based on different attributes of the environment
  - Identifying potential versus immediate hazards
  - Discussing unusual crash types that may require additional work or expertise

#### 2018

##### USA Drone Port

- *Search & Rescue Training Utilizing Drones - Certificate of Training*

#### 2017

##### Federal Aviation Administration - *Licensed Remote Pilot/UAS Certification*

#### 2014-2016

##### Institute of Police Technology and Management

- *Basic Crime Scene (20 hrs)*
  - Reviewed real case studies of crime scenes and the crime scene investigation processes
  - Collection and preservation of evidence
  - Participated in field work of casting impressions of shoe, tire, and tool marks using dental stone. Created shoe impression and cast with dental stone.
  - Participated in creating fingerprint impressions using various surfaces and participated in processing and lifting those fingerprints using various methods and agents:
    - Powder on Styrofoam, plastic, aluminum foil and paper products
    - Magnetic powder on Styrofoam, plastic, aluminum foil and paper products
    - Florescent powders on paper and aluminum foil
    - Ninhydrin on paper
    - Small Particle Reagent on Styrofoam

- Sudan Black on Styrofoam
    - Silver Nitrate on paper
    - Oil Red O on paper
    - Physical Developer on paper
    - Iodine on paper
    - Elmer's gel glue on textured surface
    - Cyanoacrylate Fuming (superglue) on Styrofoam in chamber created from an extra- large Ziploc bag and PVC piping with chemically treated pad as heat source, as well as fingerprints processed in a plastic container and heat source
    - Gentian Violet aka Crystal Violet on adhesive/tape
    - Sticky-side Powder on adhesive/tape
    - Amido Black using a blood protein stain
  - Processed fingerprints on human skin using index card and black magnetic powder
  - Understanding of alternate light sources/ALS light energy
  - Participated in the detection of trace evidence and fingerprints using alternate light sources/ALS light energy
  - Interpreted bloodstain patterns and how to process blood protein stains
  - Learned to utilize chemicals to enhance the presence of blood on crime scenes
  - Detection of Blood using Phenolphthalein Presumptive Test
  - Photography and documentation of evidence, fingerprints, and crime scene
  - Photography using macro close-up evidence
  - Photography using alternate light sources
- *Digital Photography for Law Enforcement (20 hrs)*
    - Trained with 3 primary camera shooting modes
    - Basics of scene documentation
    - Footwear, tire tread, injury, and macro close-up evidence photography
    - Daytime/Nighttime flash photography and painting with light
    - Digital image archiving as related to chain of custody
  - *Online Bosch Full CDR Technician*
    - History of Event Data Recorders (EDR) and the Bosch© CDR Tool
    - Learn common "Terms of Art" for EDR technology
    - Load and activate the Bosch© CDR Tool software
    - Use of the Bosch© CDR Tool Help File as a current and future resource
    - Collect EDR data using the Bosch© CDR Tool
    - Troubleshoot data collection issues
    - Prevent spoliation of EDR data
    - Legal considerations

## **2014-2015**

National Institute of Justice

Certificates of Completion:

- *Collecting DNA Evidence at Property Crime Scenes*

- *Crime Scene & DNA Basics for Forensic Analysis*
- *What Every Law Enforcement Officer Should Know About DNA Evidence*
- *Firearms Examiner Training*
- *False Positives and False Negatives in Cartridge Case Comparison*

## **2014**

Kentucky Department of Professional Licensing - *Licensed Private Investigator*

## **2012**

Kentucky State Police Concealed Carry Licensing – *Concealed Carry Deadly Weapon Permit*

## **2011-2015**

Bachelor of Science Criminal Justice, Forensic Sciences  
American Intercontinental University – Schaumburg, IL

## **2003-2004**

Basic Geographic Intelligence Specialist Course (*1,197 hours of training*)  
National Geospatial-Intelligence School – Fort Belvoir, VA

- *Fundamentals of Topography - 79.0 hours*
- *Terrain Analysis*
  - *The Basic Fundamentals of Terrain Analysis – 99.0 hours*
  - *Analysis and Data Base Production- 76.0 hours*
  - *Synthesis of Special Terrain Products- 89.0 hours*
  - *ARC/INFO and Command Post Exercise- 137.0 hours*
- *Cartography*
  - *Map Base Preparation -40.0 hours*
  - *Map Compilation – 84.0 hours*
  - *Color Separation- 21.0 hours*
  - *Automated Cartography- 60.0 hours*
- *Geodetic Survey*
  - *Surveying Fundamentals – 95.0 hours*
  - *Theodolite Measurement- 74.0 hours*
  - *Distance Measurement – 12.0 hours*
  - *Vertical Control – 54.0 hours*
  - *Survey Computations – 83.0 hours*
  - *Topographic Techniques- 89.0 hours*
  - *GPS Survey- 51.0 hours*
  - *Field Training Exercise- 40.0 hours*
  - *Basic Course Administration-14.0 hours*

## **2003**

Marine Combat Training  
Camp Geiger – Camp Lejeune, NC

- *Radio communications*
- *Automatic weapons*

- *First aid*
- *Grenade launchers*
- *Anti-tank launchers*
- *Improvised explosive devices*
- *Reconnaissance & Surveillance*
- *Prisoner detention*
- *Searching suspects*
- *Setting up checkpoints and control basics*
- *Live fire exercises*
- *Machine guns*
- *Hand grenades*
- *Nighttime live fire exercises*
- *Forced marches*
- *Computer simulated live fire weapons training exercises*
- *Armored vehicle patrolling*
- *IED detection*
- *Night assaults and ambushes*
- *Crossing danger points*
- *Land navigation and map reading*

## **2003**

United States Marine Corps Recruit Training  
Marine Corps Recruit Depot – Parris Island, SC

- *Military History & Core Values*
- *Close order drills*
- *Hand to hand combat*
- *Water survival*
- *Rappelling*
- *Nuclear Biological Chemical Training*
- *Fundamentals of marksmanship*
- *Live Fire Training*
- *Basic Warrior Training (Basic Combat Survival Skills)*
- *Land navigation (Map Coordinates, Compass, Azimuth)*
- *Maneuver under fire*
- *Combat Fitness test and obstacle course*
- *54- hour build event (Crucible)*

## **2003**

*High School Diploma*

Leslie County High School – Hyden, KY

## **Professional Experience**

### **2014-Present**

#### *Stidham Reconstruction and Investigation*

##### Licensed Private Investigator

- Processes accident and crime scenes for reconstruction through photography, measurements, documentation/collection of evidence and surveying
- Secures collected evidence and maintains company evidence locker
- Performs various private investigation tasks such as surveillance, background investigations, service of court papers, and courtroom multimedia presentations
- Processes evidence for collection of trace evidence including fingerprints, fibers, paint transfers and DNA
- Creates mapping products for reconstruction
- Pilots unmanned aerial camera system
- Creates 3D models created through aerial and conventional photographs

### **2012-2013**

#### *Leslie County Sheriff's Office*

##### Special Deputy

- Aided on duty officers with serving warrants, responding to complaints and general patrol of the jurisdiction

### **2011-2012**

#### *Whitaker Security*

##### Security Guard

- Maintained accountability of client's equipment and resources
- Prevented unauthorized access on client's properties

### **2010**

#### *Leslie County Detention Center*

##### Deputy Jailer

- Managed internal and external access through control room
- Performed standard detention operations, i.e. booking, supervision, prisoner transport

### **2008-2009**

#### *United States Marine Corps*

##### Intelligence Chief

- Deployed to Iraq in support of transition operations, attached to Fallujah city police department and aided in training of local police
- Performed as team intelligence chief providing force protection analysis of police stations, route mapping and threat assessments for convoy operations, indication and warnings of impending attacks, delivering mission briefings and debriefings.



- Received fourth award of Navy Achievement Medal for professional achievement and superior performance in this time period.

## **2007-2008**

*Photo Science Inc.*

Geospatial Technician

- Analyzed and modified geographic data for customer's needs including geographic shapefiles, aerial imagery and LIDAR data.

## **2003-2007**

*United States Marine Corps*

Geographic Intelligence Specialist, All-Source Intelligence Analyst

- Utilized geographic information systems (i.e. ESRI ArcGIS, ERDAS Imagine, Falconview, Google Earth) to analyze geographic, statistical and environmental data and compile data into mapping products.
- Utilized geodetic survey equipment to provide ground control accuracy for mapping products.
- Analyzed multiple source intelligence to create intelligence products on statistics of enemy attacks, network analysis of insurgent groups, target packages for actionable intelligence.
- Deployed to Iraq twice in this time period in support of combat operations in 2005 and 2006-2006.
- Received three Navy Achievement Medals for professional achievement and superior performance in this time period.

## **STUDIES AND TESTING PARTICIPATED IN**

- Lab testing creating various bloodstain patterns with various weapons and examining the dynamics of liquid blood. Jacksonville, Florida (October 2019)
- Applied the area of origin and convergence of origin using the string method to determine angle of impact of bloodstain patterns. Jacksonville, Florida (August & October 2019)
- Participated in real case study of crime scene to interpret bloodstain patterns in determining if case was a homicide or suicide. Jacksonville, Florida (August & October 2019)
- Field work casting impressions of shoe and tool marking using dental stone. Hazard, KY (October 2014)
- Created fingerprint impressions using various surfaces, and processed and lifted those prints using various methods, chemicals and agents. Hazard, Kentucky (October 2014)

- Used alternate light sources/ALS light energy to detect trace evidence and fingerprints processed with florescent powders. Hazard, Kentucky (October 2014)
- Processed blood using Luminol. Jacksonville, Florida (October 2019)
- Participated in firearms testing to create ballistic trajectories in various objects to simulate situations to perform scientific analysis utilizing the following trajectory methods:  
Jacksonville, Florida (November 2019)
  - Rod method
  - Rod and string method
  - Retrieval of projectiles
  - String method for point of reference on fractured glass
  - Entrance and exit determination, and specifically in glass
  - Laser method
  - Angle method
- Participated in the application of crime scene reconstruction scientific method in a real case study crime scene with use of photographs, documentation, autopsy, lab reports, and witness statements. Jacksonville, Florida (August 2019)
- Applied the area of origin and convergence of origin using the string method to determine angle of impact of bloodstain patterns. Applied the Tangent Method for area of impact. Jacksonville, Florida (October 2019)
- Participated in development of chemical enhancement of patent blood fingerprint impressions. Hazard, Kentucky (October 2014)
- Participated in firearms testing to create ballistic trajectories in various objects to simulate situations to perform scientific analysis utilizing the following trajectory methods:  
Jacksonville Florida (November 2019)
  - Rod method
  - Retrieval of projectiles
  - String method for point of reference on fractured glass
  - Entrance and exit determination, and specifically in glass
  - Laser method
  - Angle method
- Participated in nighttime photography of a shooting incident. Jacksonville Florida (November 2019)
- Participated in firearms testing for DPA Training Seminar (June 2014)
- Participated in firearms testing and dynamics of bloodstain patterns of gunshot wounds for DPA Training Seminar (June 2015)

## **Special Military Projects:**

- Counter TTP analysis for RKG-3 attacks on coalition vehicles, development of friendly TTP to mitigate or eliminate posed threats.
- Counter Terrorism Route Threat Analysis – identify points along a route in order to determine how long it will take you to navigate a combat zone.
- Terrain Analysis Product -Trafficability analysis for combat zones using soil composition, slope determination and vegetation to determine maneuverability of armored vehicles and troop placement.
- Line of sight analysis in large land areas as well as small land areas (i.e. a city) for snipers and tanks to determine topography given a specific point within a combat zone.
- Developed network analysis that mapped and analyzed 1800 insurgent relationships resulting in a master link chart depicting insurgent network topography.
- Comprehensive tribal study for geographic composition of tribal regions within area of operations.
- Graphic creation and analysis to support comprehensive intelligence preparation for battlefield readiness.
- Geographical Topography Analysis for platoon wherein I derived and implemented geospatial database for the USPACOM theater.
- Lead intelligence support for 300 marines by preparing an intelligence product and briefing to insurgent weapons caches, creating a tribal study of combat region previously not frequented by coalition forces.
- Utilization of intelligence training to provide accurate information of enemy tactics, techniques, and procedures and finding open source media that provided other units support to develop sound standard operating procedures to counter enemy threat.

## **Relevant Personal Hobbies & Interests:**

- Recreational shooting including short, medium, and long range target shooting with rifles and pistols, sporting clays with shotgun, crossbow and traditional archery.
- Customization and modification of various firearm platforms including AR15 and derivatives, AK47/AKM and derivatives, SKS, Mosin-Nagant, Glock, Kahr, Springfield XD series, Smith & Wesson M&P series, Sig Sauer P365 series, Mossberg 500/590 series, and others.