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**EnCase Certified Examiner (EnCE)**  
**Certified Forensic Computer Examiner (CFCE)**  
**Certified Electronic Evidence Collection Specialist (CEECS)**  
**Certified Blackthorn GPS Device Examiner**  
**Certified eDiscovery Specialist (CEDS) Candidate**  
**Active Top Secret Clearance**

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## **PROFESSIONAL EXPERIENCE**

**Department of Homeland Security – Transportation Security Administration**  
**Digital Analyst / Lead Computer Forensic & eDiscovery Examiner**  
**Digital Forensics Lab / Focused Operations Unit**  
**Arlington, Virginia**

- Appointment Date (Contractor): November 23, 2009
- Appointment Date (Federal Employee): January 3, 2011
- Active Top Secret Security Clearance
- Recognized for work performance on an SSI Spill Incident & Remediation March 2010
- Responsibilities include computer forensics and eDiscovery on federal government networks, desktop computers, laptop computers & cell phones
- Conduct research and development (testing and validation) for new methodology and curriculum development for training experienced and new examiners

**Baltimore County Police Department**  
**Criminal Investigation Division (Detective / Computer Forensic Examiner)**  
**Towson, Maryland**

- Appointment Date: June 22, 2002
- Last assigned to the Vice / Narcotics Section
- Full medical retirement in July 2009 due to line of duty hand injury
- Nominated “2004 Exceptional Police Performance Award” Maryland Chiefs of Police Association
- Officer of The Month March 2004, November 2004, and February 2005
- Commander’s Award July 2005
- Unit Citation 2007

**Washington County Sheriff’s Office**  
**Patrol Division**  
**Hagerstown, Maryland**

- Appointment Date: September 23, 1996
  - Assignments Included: Road Patrol, Community Policing, Traffic Investigation, Power Squad (DWI / Drug Interdiction Unit)
  - Awarded for Most Departmental Criminal Arrests for 1997
  - Awarded for Most Departmental Traffic Citations for 1997
  - Departmental Leader for Vehicle Drug Interdiction Seizures 1999
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## **COMPUTER FORENSIC & eDISCOVERY EXPERIENCE**

In November 2009 joined the Department of Homeland Security as a Digital Analyst assigned to the Transportation Security Administration at TSA Headquarters located in Arlington, Virginia. Main responsibilities include computer forensics and eDiscovery on federal government networks, desktop computers, laptop computers & cell phones. Additional responsibilities include the detection of malware / malicious code, software and equipment validation & testing, research & development, drafting new agency policies and data recovery from damaged hard drives. Other responsibilities include developing training programs and instructing less experienced examiners on the principles of computer forensics, cell phone forensics and eDiscovery in a government enterprise environment.

From June 2002 through July 2009 employed by the Baltimore County Police Department and last assigned to the Vice / Narcotics Section as a Criminal Investigator and Computer Forensic Examiner. Responsibilities included criminal investigations, computer and cell phone forensic examinations and the general management of all information gathering regarding investigations where the internet, computers, cell phones and landline phones facilitated criminal activity.

Additional responsibilities included the writing of Dialed Number Recorder Affidavits and Orders, Court Subpoenas, Title 3 Electronic Intercept / Wiretap Affidavits and Orders and Search & Seizure Warrants pertaining to computers, cell & landline phones, IP addresses, email accounts and Internet user accounts.

Offered supportive assistance to less experienced officers and detectives assigned to road patrol units and other criminal investigative units when the internet, computers, cell phones and landline phones facilitated criminal activity. By request of the Baltimore County State's Attorney's Office, assisted the Baltimore County Police Department Civilian Computer Forensics Lab with all computer and cell phone forensic examinations.

Area of expertise includes forensic acquisition, recovery, investigation and analysis of data from desktop computers, laptop computers, cell phones, GPS devices, file servers, email servers, Sharepoint servers and various other computer storage devices. Maintain proficient use of several computer and cell phone forensic tools and have extensive training and experience conducting cyber related investigations. Extensive training and experience dealing with the Chain of Custody of Evidence, the Rules of Evidence, Fourth Amendment Search and Seizure Issues and being an Affiant / Co-Affiant on official court documents.

Broaden computer forensic knowledge by reading daily postings on various forums and by assisting examiners worldwide that ask for assistance. Conduct research and development for IACIS and offer guidance to new candidates in the CFCE Certification Process.

Twelve years experience working as a Police Officer in a Uniformed, Undercover, Criminal Investigator and Computer Forensic Examiner capacity.

Direct experience as a Criminal Investigator and Computer Forensic Examiner investigating the crimes of Child Pornography, Internet Child Exploitation, Human Sex Slavery, Prostitution and Unlawful Gambling & Sports Book.

Supportive experience as a Criminal Investigator and Computer Forensic Examiner assisting with the investigation of the crimes of Kidnapping, Arson, Embezzlement, Homicide, Theft, Child Abuse, Harassment, Stalking, Narcotics Distribution and Internal Affairs Investigations.

Experienced in the Federal Rules of Civil Procedure governing eDiscovery to include; Rule 16 (b), Rule 26 (a), Rule 26 (b)(2), Rule 26 (b)(5), Rule 26 (f), Rule 33 (d), Rule 34 (b), Rule 37, Rule 37 (f), and Rule 45. Knowledge of litigation support technologies to include; (scanning

software w/OCR), (load file creation from native file to .tiff, .pdf, Concordance, Summation, Ringtail and EDRM xml), (advanced keyword strategies to include; Boolean, proximity, stemming, phonic, wildcard, synonym, concept and fuzzy) and (Early Case Assessment utilizing custodian analytics, De-Duping and De-Nisting). Demonstrated experience performing Defensible ESI Collection from desktop computers, laptop computers, Blackberry devices, iPhone and iPad devices, file servers, Sharepoint servers, Exchange email servers and database servers. Demonstrated experience performing Blackberry server log analysis, OWA log analysis, advanced email analysis to include threading, reconstructing visited web pages and in the collection of social media artifacts from Facebook, MySpace and Twitter.

Successfully investigated cases on a local and federal level and have given court testimony in Baltimore County District Court, Baltimore County Circuit Court and U.S. Federal Court.

## **Provided direct and supportive involvement as a Criminal Investigator and Computer Forensic Examiner for:**

### **Baltimore County Police Department**

Completed more than 250 forensic acquisitions and examinations of desktop and laptop computers, related storage media and cell phones. Provided direct and supportive involvement for criminal cases dealing with computers, cell & landline phones, IP addresses, email accounts and internet user accounts. Prepared and executed more than 150 court ordered subpoenas and search and seizure warrants where computers facilitated criminal activity. Provided court testimony relating to involvement in criminal investigations and computer forensic examinations. Consulted other detectives on how to investigate cyber related cases detailing proper methodologies. Developed templates for various subpoenas and search and seizure warrants for other units of the Criminal Investigation Division of the Baltimore County Police Department. Participated in undercover operations involving human trafficking, child exploitation, child pornography, sex offense and drug distribution cases.

### **Baltimore County State's Attorney's Office**

Provided case preparation, direct assistance and consultation in regards to investigations where computers and cell phones facilitated criminal activity.

### **Baltimore City Police Department**

Provided direct assistance and completed computer forensic examinations of desktop and laptop computers, related storage media and cell phones in regards to multi-jurisdictional narcotics, illegal gambling, homicide and internal affairs investigations.

### **Baltimore City State's Attorney's Office**

Provided case preparation, direct assistance and consultation in regards to investigations where computers and cell phones facilitated criminal activity.

### **Bureau of Alcohol Tobacco & Firearms (BATF)**

Provided direct assistance and completed computer forensic examinations of desktop and laptop computers and related storage media in regards to federal arson investigations.

### **Carroll County Sheriff's Office (Maryland)**

Provided direct assistance with multi-jurisdictional child pornography and theft investigations where computers facilitated criminal activity.

### **Concord Police Department (North Carolina)**

Provided direct assistance and completed a computer forensic examination of desktop computers and related storage media in regard to a multi-jurisdictional child exploitation investigation.

**Drug Enforcement Administration (DEA)**

Provided direct assistance and completed computer forensic examinations of desktop and laptop computers, related storage media and cell phones in regards to multi-jurisdictional narcotics investigations. Completed "Black Bag / Undercover" computer acquisitions. Provided direct assistance with cell phone, IP address and email tracing regarding several Title 3 Electronic Intercept / Wiretap Orders. Participated in undercover operations involving drug distribution cases.

**Federal Bureau of Investigation (FBI)**

Provided direct assistance and completed computer forensic examinations of desktop and laptop computers and related storage media in regards to multi-jurisdictional child exploitation, child pornography, sex offense, and embezzlement investigations. Provided court testimony relating to involvement in criminal investigations and computer forensic examinations. Consulted agents investigating cyber related cases. Participated in undercover operations involving child exploitation, child pornography and sex offense cases.

**Harford County Sheriff's Office (Maryland)**

Provided direct assistance and completed computer forensic examinations of desktop and laptop computers and related storage media in regards to multi-jurisdictional child pornography, theft and illegal gambling investigations.

**Howard County Police Department (Maryland)**

Provided direct assistance and completed computer forensic examinations of desktop and laptop computers and related storage media in regards to multi-jurisdictional child exploitation, sex offense and human trafficking investigations.

**Immigration & Customs Enforcement (ICE)**

Provided direct assistance and completed computer forensic examinations of desktop and laptop computers and related storage media in regards to multi-jurisdictional child exploitation, child pornography, sex offense and human trafficking investigations. Participated in undercover operations involving human trafficking and prostitution cases.

**Internal Revenue Service (IRS)**

Provided direct assistance and completed computer forensic examinations of desktop and laptop computers and related storage media in regards to multi-jurisdictional illegal gambling and narcotics investigations where money laundering and tax evasion was discovered.

**Internet Crimes Against Children (ICAC)**

Provided direct assistance and completed computer forensic examinations of desktop and laptop computers and related storage media in regards to multi-jurisdictional child exploitation, child pornography and sex offense investigations. Participated in undercover operations involving child exploitation, child pornography and sex offense cases.

**Maryland Chiropractic Board**

Provided direct assistance and completed computer forensic examinations of desktop and laptop computers and related storage media in regards to human trafficking and prostitution investigations. Participated in undercover operations involving human trafficking and prostitution cases.

**Maryland Comptroller's Office**

Provided direct assistance and completed computer forensic examinations of desktop and laptop computers and related storage media in regards to multi-jurisdictional illegal gambling investigations where tax evasion was discovered.

**Maryland Horse Racing Commission**

Provided direct assistance with theft and gambling investigations where computers facilitated criminal activity.

**Maryland State Police**

Provided direct assistance and completed computer forensic examinations of desktop and laptop computers and related storage media in regards to multi-jurisdictional child exploitation, child pornography, and sex offense investigations. Participated in undercover operations involving child exploitation, child pornography and sex offense cases.

**National Center for Missing and Exploited Children (NCMEC)**

Provided direct assistance and completed computer forensic examinations of desktop and laptop computers and related storage media in regards to multi-jurisdictional child exploitation, child pornography and sex offense investigations. Participated in undercover operations involving child exploitation, child pornography and sex offense cases.

**National Football League (NFL)**

Provided direct assistance and completed computer forensic examinations of desktop and laptop computers and related storage media in regard to a multi-jurisdictional illegal gambling investigation with the Baltimore Ravens.

**Private Companies & Law Firms**

Provided direct assistance and consultation in regards to investigations where computers and cell phones facilitated criminal activity that led to civil proceedings.

**Social Security Administration**

Provided direct assistance and completed computer forensic examinations of desktop and laptop computers and related storage media in regards to multi-jurisdictional theft, child exploitation, child pornography and sex offense investigations.

**Spotsylvania County Sheriff's Office (Virginia)**

Provided direct assistance and completed a computer forensic examination of desktop computers and related storage media in regard to a multi-jurisdictional child exploitation investigation.

**U.S. Attorney's Office (Maryland District)**

Provided direct assistance and consultation in regards to investigations where computers and cell phones facilitated criminal activity.

**Wheaton Police Department (Illinois)**

Provided direct assistance and completed a computer forensic examination of desktop computers and related storage media in regard to a multi-jurisdictional child exploitation investigations.

**Provided direct and supportive eDiscovery services for:****Various Private Companies and Law Firms (MD, DC, VA & FL)**

Completed Defensible ESI Collection and load file production for matters to include; theft of intellectual property, contract disputes, employment disputes and SEC violations.

## **COMPUTER FORENSIC / eDISCOVERY TRAINING & CERTIFICATIONS**

**January 2006**

**“Computer Search & Seizure”**

Northeast Counterdrug Training Center

National Center for Forensic Science

Fort Indiantown Gap, Pennsylvania

**February 2006 – May 2006**

**“Comp-Tia A+ Core Hardware, A+ Operating System, Network+”**

Academy of Computer Education

Greenbelt, Maryland

**October 2006**

**EnCase Certified Examiner “EnCE”**

**“EnCase Essentials”**

Guidance Software

Sterling, Virginia

**February 2007**

**EnCase Certified Examiner “EnCE”**

**“EnCase Forensics II”**

Guidance Software

Sterling, Virginia

**April 2007**

**EnCase Certified Examiner “EnCE”**

**“EnCase Advanced Internet Examinations”**

Guidance Software

Sterling, Virginia

**October 2007**

**EnCase Certified Examiner “EnCE”**

**“EnCase Advanced Computer Forensics”**

Guidance Software

Sterling, Virginia

**April 2008 – May 2008**

**Certified Electronic Evidence Collection Specialist “CEECS” (Training & Certification)**

“IACIS” International Association of Computer Investigative Specialists

Orlando, Florida

**April 2008 – May 2008**

**Certified Forensic Computer Examiner “CFCE” (Training & Certification)**

“IACIS” International Association of Computer Investigative Specialists

Orlando, Florida

**October 2008**

**“XRY” Cell Phone Forensic Software**

Baltimore County Police Department

Towson, Maryland

**October 2008**  
**“Device Seizure” Cell Phone Forensic Software**  
Baltimore County Police Department  
Towson, Maryland

**March 2009**  
**“Cellbrite UFED” Cell Phone Forensic Software**  
Baltimore County Police Department  
Towson, Maryland

**June 2009**  
**EnCase Certified Examiner “EnCE”**  
**“EnCase EnCE Prep and Review”**  
Guidance Software  
Sterling, Virginia

**November 2009**  
**EnCase Enterprise Edition**  
Transportation Security Administration  
Arlington, Virginia

**February 2010**  
**“FTK” Forensic Tool Kit**  
Transportation Security Administration  
Arlington, Virginia

**February 2010**  
**“FTK” Forensic Tool Kit Enterprise Edition**  
Transportation Security Administration  
Arlington, Virginia

**March 2010**  
**Hard Drive Repair and Data Recovery**  
SANS Conference  
Orlando, Florida

**October 2010**  
**Techno Forensics Conference**  
Gaithersburg, Maryland

**February 2011**  
**Access Data - eDiscovery in an Enterprise Environment**  
Washington, DC

**March 2011**  
**Clearwell Systems - eDiscovery Boot Camp**  
Washington, DC

**March 2011**  
**"ACEDS" Association of Certified eDiscovery Specialists (Training & Certification)**  
Hollywood, Florida

**April 2011**  
**Berla Corp - Blackthorn Software / GPS Device Forensics (Training & Certification)**  
Reston, Virginia

**April 2011**

**Access Data - "MPE+" Mobile Phone Examiner Software**

Washington, DC

**May 2011**

**Advanced Windows Forensic Computer Examiner "AWFE" (Training & Certification)**

"IACIS" International Association of Computer Investigative Specialists

Orlando, Florida

**May 2011**

**Advanced Internet Forensic Computer Examiner "AIFE" (Training & Certification)**

"IACIS" International Association of Computer Investigative Specialists

Orlando, Florida

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## ***TEACHING / PRESENTATIONS / R&D***

**Baltimore County Police Academy**

Investigating Child Pornography & Internet Child Exploitation

**Baltimore County Bar Association**

Computer Forensics Presentation "Where We Have Been, Where We Are Now and Where We Are Going"

**"IACIS" International Association of Computer Investigative Specialists**

Coach for the 2009 & 2010 "CFCE" Certified Computer Forensic Examiner Process

**"IACIS" International Association of Computer Investigative Specialists**

Conduct Research & Development (Testing and Validation) for new methodology and curriculum development for training experienced and new examiners

**"EnCase Enterprise & EnCase Forensic" Software Instructor**

Instructor of Computer Forensics & eDiscovery / Legal Issues in Computer Forensics for the Department of Homeland Security.

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## ***MEMBERSHIP ORGANIZATIONS***

**International Association of Computer Investigative Specialists (IACIS)**

**Association of Certified eDiscovery Specialists (ACEDS)**

**High Tech Crime Consortium (HTCC)**

**Guidance Software / EnCase Message Forum**

**Access Data / FTK Message Forum**

**Computer Forensics World Message Forum**

**Forensic Focus Computer Forensic Message Forum**

**Mac OS X Forensic Message Forum**



## ***SPECIALIZED LAW ENFORCEMENT TRAINING***

- Maryland State Police - "Community Policing Academy"
- Bureau Alcohol Tobacco & Firearms - "Armed Confrontation Training"
- Moving / Stationary Radar Certification
- NHTSA Field Sobriety Certification / Preliminary Breath Test Certification / Drug Recognition Expert Introduction
- High Risk Room Entry and Warrant Service
- Highway Drug Interdiction Training
- Laser Speed Detection Certification
- High Risk Vehicle Traffic Stops and Take Downs
- Interview & Interrogation
- Hand Writing and Statement Analysis
- False Identification Recognition
- Official Government Identification and Document Analysis
- Mobile Field Force Tactics
- Active Shooter / Workplace Violence Tactical Training
- Federal Bureau of Investigation - Unlawful Gambling / Loan Sharking / Sports Bookmaking Training
- Casino Horizons - Unlawful Casino and Slot Machine Training
- Search & Seizure Training
- Wiretap / Electronic Intercept Training
- Maryland Chiropractic Board Training
- Project Safe Childhood Child Exploitation Training
- Constitutional Law
- History of Terrorism and Police Response to Terrorist Acts
- Missing and Abducted Child Investigations
- Hostile Work Environment
- Mental Illness and Officer Safety Dealing with Aggressive Behaviors
- Sexual Assault Victimization
- Patrol Officer Spanish
- Identity Theft Investigations
- National Incident Management
- Post Traumatic Stress
- Child Sexual Abuse Investigations
- Pandemic Planning

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## ***COLLEGE EDUCATION***

**Anne Arundel Community College**  
**Arnold, Maryland**

**January 1995 - June 1996**

- Completed The Law Enforcement (2) Year Program - (3.91 GPA)

**Catonsville Community College**  
**Catonsville, Maryland**

**September 1993 - December 1994**

- Completed The Criminal Justice (2) Year Program - (3.85 GPA)