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**Guidance Software EnCase Certified Examiner (EnCE)**  
**Access Data FTK Certified Examiner (ACE)**  
**Access Data Mobile Phone Certified Examiner (MPE)**  
**IACIS Certified Forensic Computer Examiner (CFCE)**  
**IACIS Certified Electronic Evidence Collection Specialist (CEECS)**  
**Blackthorn Certified GPS Device Examiner**  
**Georgetown School of Law - eDiscovery Academy Graduate**  
**Top Secret Security Clearance**

**Recognized Court Expert for Maryland State Court (District & Circuit Courts) and  
United States Federal Court (District of Maryland)**

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## **PROFESSIONAL EXPERIENCE**

**Raytheon | Foreground Security**  
**SME / Senior Computer Forensic & Malware Analyst**  
**DFIR Lab**  
**Herndon, Virginia**

- Appointment Date: November 1, 2013.
- Responsibilities include: malware analysis, security incident response, network intrusion analysis, advanced computer forensics, memory analysis and eDiscovery within varied network environments, desktop computers, laptop computers, cell phones and tablet devices.
- Subject Matter Expert tasked to develop and enhance the lab's investigation, forensic, and eDiscovery function. Conduct R&D and offer guidance to increase and maintain the group's capabilities. Assist in cyber related cases involving professional services clients, federal and local government agencies.

**Federal Bureau of Investigation**  
**SME / Senior eDiscovery & Computer Forensic Analyst**  
**Electronically Stored Information Discovery Unit / Criminal Section**  
**Washington, DC**

- Appointment Date: November 14, 2011.
- Responsibilities included: defensible ESI collection, recovery and analysis of data from desktop computers, laptop computers, cell phones, servers and other media.
- Subject Matter Expert tasked to develop and streamline the eDiscovery & media analysis (forensic) process, enhance defensibility and offer guidance on software technology and implementation. Coordinate the proper protocol in accordance to FRCP guidelines with data repository custodians and liaison between senior leadership, Office of General Counsel and IT support staff.

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

- Appointment Date: November 23, 2009.
- Responsibilities included: computer forensics, intrusion analysis, malware detection and eDiscovery on government networks, computers, tablets and cell phones.
- Conducted R&D to enhance the lab's capabilities and to identify vulnerabilities.
- Developed new methodology and curriculum for training experienced and new examiners in the TSA lab.

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

- Appointment Date: June 22, 2002.
- Full medical retirement in July 2009 due to line of duty hand injury.
- Last assigned with the Vice / Narcotics Section as a Detective and Computer Forensic Examiner.
- 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 Department Criminal Arrests for 1997.
- Awarded for Most Department Traffic Citations for 1997.
- Department Leader for Vehicle Drug Interdiction Seizures 1999.

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***COMPUTER FORENSIC & eDISCOVERY EXPERIENCE***

In November 2013 began work with Raytheon | Foreground Security. Responsibilities include malware analysis, security incident response, network intrusion analysis, advanced computer forensics, memory analysis and eDiscovery within varied network environments, desktop computers, laptop computers, cell phones and tablet devices. Subject Matter Expert tasked to develop and enhance the lab’s investigation, forensic, and eDiscovery function. Conduct R&D and offer guidance to increase and maintain the group’s capabilities. Assist in cyber related cases involving professional services clients, federal and local government agencies.

From November 2011 through October 2013 employed at the Federal Bureau of Investigation assigned to FBI Headquarters. Tasked as the Subject Matter Expert responsible for coordinating and streamlining the eDiscovery & media analysis (forensic) process, enhance defensibility and offer guidance on software technology and implementation. Technical responsibilities included defensible ESI collection, recovery and analysis of data from desktop computers, laptop computers, cell phones, servers and other media. Additional responsibilities included the coordination of proper protocol with data repository custodians in accordance to FRCP guidelines and liaison between senior leadership, Office of General Counsel and IT support staff.

From November 2009 through November 2011 employed at the Department of Homeland Security as an IT Supervisory Specialist & Lead Analyst assigned to the Transportation Security Administration at TSA Headquarters. Main responsibilities included computer forensics and eDiscovery on federal government networks, desktop / laptop computers, tablets & cell phones. Additional responsibilities included network intrusion investigations, the detection of malware, memory analysis, research & development / software and equipment validation & testing to identify vulnerabilities, cyber intelligence, data recovery from damaged hard drives, drafting new agency policies for the lab's evidence handling and operating procedures and assisting with "Insider Threat" / employee related forensic investigations. Other responsibilities included developing training programs and instructing less experienced examiners on the principles of computer forensics, cell phone forensics and eDiscovery in a government enterprise environment. Tasked to coordinate and implement an eDiscovery component that included software testing and procurement oversight.

From June 2002 through July 2009 employed at 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.

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 (EnCase - Forensic & Enterprise Edition, FTK - Forensic & Enterprise Edition, ECA, MPE+, CelleBrite, XRY, Device Seizure, Lantern, Intella, NetAnalysis, CacheBack, Internet Evidence Finder, Volatility, Redline, etc.) and have extensive training and experience conducting cyber related investigations in a workstation and network LAN/WAN environment. 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.

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), (Early Case Assessment utilizing custodian analytics, De-Duping and De-Nisting) and (advanced review Predictive Coding). 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 been recognized as an Expert Witness in Local District Courts, Local Circuit Courts, U.S. Federal Court and Civil Hearings.

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## ***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**

**CelleBrite 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 Edition**

Transportation Security Administration

Arlington, Virginia

**February 2010**

**FTK 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**

**eDiscovery in an Enterprise Environment**

Access Data

Washington, DC

**March 2011**

**eDiscovery Boot Camp**

Clearwell Systems

Washington, DC

**March 2011**

**"ACEDS" Association of Certified eDiscovery Specialists Conference**

Hollywood, Florida

**April 2011**

**Berla Corp - Blackthorn Software / GPS Device Forensics (Training & Certification)**

Reston, Virginia

**April 2011**

**MPE+ Mobile Phone Examiner Software**

Access Data

Washington, DC

**May 2011**

**Advanced Windows Forensic Computer Examiner "AWFE"**

"IACIS" International Association of Computer Investigative Specialists

Orlando, Florida

**May 2011**

**Advanced Internet Forensic Computer Examiner "AIFE"**

"IACIS" International Association of Computer Investigative Specialists

Orlando, Florida

**July 2011**

**EnCase Version 7 (Essentials)**

Guidance Software

Sterling, Virginia

**August 2011**

**EnCase Version 7 (Index & Raw Data Searching)**

Guidance Software

Sterling, Virginia

**September 2011**

**EnCase Version 7 (Hash & File Signature Analysis)**

Guidance Software

Sterling, Virginia

**October 2011**

**EnCase Version 7 (Email & Internet History Analysis)**

Guidance Software

Sterling, Virginia

**November 2011**

**eDiscovery Workshop**

Clearwell Systems

Washington, DC

**November 2011**

**Early Case Assessment & eDiscovery in the Federal Government**

Access Data

Washington, DC

**January 2012**

**EnCase Version 7 (Artifact Collection & Examination Reports)**

Guidance Software

Sterling, Virginia

**March 2012**

**Introduction to FTK4, Cerberus (Malware Triage), Visualization (Timeline Analysis) & FTK Lab (Collaborative Analysis)**

Access Data

Washington, DC

**May 2012**

**Access Data User's Conference**

Las Vegas, Nevada

**June 2012**

**Georgetown School of Law - eDiscovery Academy**

Washington, DC

**January 2013**

**Mobile Device Application Artifacts**

Access Data

Washington, DC

**February 2013**

**EnCase Version 7 (Jump List & Link File Analysis)**

Guidance Software

Sterling, Virginia

**March 2013**

**Mobile Device eDiscovery & Analysis**

Access Data

Washington, DC

**May 2013**  
**Android Malware Detection & Analysis**  
Access Data  
Washington, DC

**May 2013**  
**Mobile eDiscovery & iOS Artifact Analysis**  
Access Data  
Washington, DC

**May 2013**  
**iPhone & Android Application eDiscovery & Analysis**  
Access Data  
Washington, DC

**July 2013**  
**BYOD and the Impact on eDiscovery**  
Guidance Software  
Washington, DC

**July 2013**  
**Introduction to Summation 5.0**  
Access Data  
Washington, DC

**August 2013**  
**EnCase Version 7 (P2P Application Analysis)**  
Guidance Software  
Sterling, Virginia

**September 2013**  
**FTK 5.0 Intelligent Approach to Processing Data**  
Access Data  
Washington, DC

**September 2013**  
**MPE+ iOS 7 Update**  
Access Data  
Washington, DC

**October 2013**  
**Internal Fraud Investigations**  
Guidance Software  
Sterling, Virginia

**January 2014**  
**Advanced Network Forensics and Incident Response**  
SANS Institute  
Washington, DC



**February 2014**  
**Investigating Human Resource Matters**  
Guidance Software  
Sterling, Virginia

**November 2014**  
**Triage and Collection Strategy for Time Sensitive Investigations**  
Guidance Software  
Sterling, Virginia

**January 2015**  
**Putting the Suspect Behind the Keyboard**  
Guidance Software  
Sterling, Virginia

**April 2015**  
**Evidence Admissibility**  
Guidance Software  
Sterling, Virginia

**May 2015**  
**The Value of Expert Witnesses**  
Guidance Software  
Sterling, Virginia

**June 2015**  
**Executing Legal Holds During a Data Breach**  
Guidance Software  
Sterling, Virginia

**July 2015**  
**International eDiscovery Data Protection**  
Guidance Software  
Sterling, Virginia

**August 2015**  
**Blackhat Conference**  
Las Vegas, Nevada

**August 2015**  
**ESI in the Cloud (Collect, Preserve & Defend)**  
Guidance Software  
Sterling, Virginia

**October 2015**  
**Volatility Memory Forensics**  
Reston, Virginia

**December 2015**

**How to Catch an Insider Data Thief**

Guidance Software

Sterling, Virginia

**July 2016**

**Advanced Smartphone Forensics & Malware Investigations**

SANS Institute

Washington, DC

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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 "History and Future of Computer and Mobile Forensics".

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

2009-2016 New Student Coach - "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.

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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)