

Curriculum Vitae

Deborah J. Blair, CFCE, CVSE

Profession:

Ms. Blair specializes in digital forensics. Since 2006, she has considerable experience in data acquisition, data authentication, data reconstruction, encryption analysis, investigation assistance, seizure assistance, and the handling of any type of networking platforms, computer systems, operating systems, software, and related hardware that may contain or conceal electronic evidence. She has relevant experience in examining and analyzing leading-edge digital forensics including data from vehicle infotainment systems and telematics devices. Ms. Blair is a Berla Certified Vehicle System Forensic Examiner. In addition to vehicle systems, she also specializes in mobile forensics (smartphones, Android/iOS platforms) as well as determining vehicle speed from smartphone GPS location data, and numerous other issues. Ms. Blair utilizes her expertise in smartphone forensics to confirm or dispute evidence of distracted driving in vehicular collisions.

Testimony:

Ms. Blair has been qualified as an expert in many trials and has testified in depositions numerous times in her career with state and government agencies. Ms. Blair has been qualified as an expert in trial in New Hampshire for computers and for mobile devices.

Certifications:

Certified Vehicle System Forensic Examiner (CVSE), iVe Berla
Certified Forensic Computer Examiner (CFCE), IACIS
Certified Electronic Evidence Collection Specialist (CEECS)
Certificate of Competency, Identification, Preservation, Collection Handheld Devices (DOJ)
Certified XRY Mobile Forensics Examiner, XRY Intermediate Certification (MSAB)
Certified BlackLight Examiner (CBE) from BlackBag Technologies (Retired)

Education:

New England College, Henniker, NH
1990-1994 - Bachelor of Arts in Business Administration

McIntosh College, Dover, NH
1985-1990 – Associate of Science in Computer Programming/Analysis



3416 Gulf Breeze Parkway | Gulf Breeze, FL 32563



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Experience:

Bloomberg Consulting, LLC - Orlando, FL

2020 to present – Director of Digital Forensics

New Hampshire State Police Forensic Laboratory– Concord, NH

2006 to 2020 – Senior Digital Forensics Examiner/Technical Manager/
Criminalist II

Rochester Police Department – Rochester, NH

1996-2006 – Manager of Information Systems

Prime Tanning Company – Berwick, ME

1986 to 1996 – Computer Operation/Analyst

Professional

Associations:

- ◆ International Association of Computer Investigative Specialist (IACIS)
- ◆ High Technology Crime Investigation Association, New England Chapter (HTCIA)

Professional

Development:

- ◆ Cellebrite Connect Virtual Summit, October / November 2020
 - Criminal Investigation Solutions, Digital Investigation Challenges, Digital Intelligence Transformation, Digital Intelligence Readiness with Cellebrite.
- ◆ Magnet Virtual Summit, Virtual, May 2020
 - Chromebook Analysis, Timelining User Generated Activity, Reverse Engineering for Android, Memory Forensics, Ransomware Prevention Strategies, Investigations Using Magnet Axiom, Malware and Memory Forensics, Jailbreaking IOS Devices, GrayKey and Aziom Investigations, Cloud Forensics Examinations, Remote Mobile Acquisitions, Digital Forensic Workflows, Linux Forensic Analysis
- ◆ Techno Security / Digital Forensic Conference, Myrtle Beach, SC, 2018
 - New Threats from Above: A Look at How Unmanned Aerial Vehicles (UAV) “Drones” are Being Utilized in Crime
 - The Ultimate Chip-off Mobile Forensics: Data Resurrection from Dead eMMC Chips
 - iOS and Android Nougat/Oreo – An In-Depth Look at the Latest Mobile Operating Systems
 - Forensic Analysis of Modern Instant Messengers from What’s App to Snapchat
 - Traces from the Cloud: Forensic Analysis of Cloud Storage
 - Keynote – Artificial Intelligences and the Future of Cybersecurity
 - Skills for a Red Teamer
 - Magnet AXIOM Essentials
 - Magnet AXIOM Mobile Forensic

- The Bits Behind the Coin: Uncovering the Cryptocurrency Trail During an Investigation
- GrayKey Introduction and Demonstration
- Leveraging Public and Private Data from Social Media and the Cloud to Accelerate Investigations
- When They Don't Want to be Found: A Look at Bitcoin and the Dark Web
- Social Media Analysis and Counter-Terrorism
- Piecing the Story Together: Correlating Operating System, Memory, and Other Artifacts in Your Forensic Examination
- Behavioral Biometrics Provides Identity and Authentication
- Analyzing Android Malware: The Devil is in the (Zipped) Details
- Cellular Technology, Mapping and Analysis: An Introduction into the Technology of Cellular Records and How They Can Be Used in Investigations
- Leveraging Blockchain for Identification Authentication for IoT
- How to Forensically Investigate a Database
- ◆ National Cyber Crime Conference, MA Attorney General's Office, Norwood, MA, 2017
 - Blazing Trough Massive amounts of Pictures and Videos ~ GriffEye
 - The Dark Web Tor-chlights
 - Extracting the Impossible, Working with Damaged Mobile Devices ~ Cellebrite
 - Swatting, Doxing, and Cyber Investigations ~ NJSP
 - Open Source Intelligent Gathering ~ NW3C
 - Child Exploitation – Proactive P2P Investigations ~TX PD
 - Introduction to Intelligence Analyst Notebook ~ IBM
 - Driving your Investigations with Vehicle and Cell Phone Forensics, MSAB ~ Berla
 - WiFi Tools for Analysis and Geo-Location (WTAG) ~ FLETC
 - Treasure Hunting for USB Gold ~SANS
 - Meet SRUM ~ SANS
- ◆ XRY Advanced Acquisition, Concord, NH, 2017
- ◆ Flasher Boxes, JTAG, and Chip Off Forensics, 2017
- ◆ Management Summit – NH State Police, Concord, NH, 2017
- ◆ Berla Vehicle Forensics, iVe, Annapolis, Maryland, 2017
- ◆ FedVTE – US Dept of Homeland Security (ISC)2 (TM) CISSP: ISSAP Certification Prep, 2017
- ◆ FedVTE – US Dept of Homeland Security, Advanced Penetration Testing, 2017
- ◆ SANS – FOR585 Advanced Smartphone Forensics, (May), Concord, NH, 2016
- ◆ Management Summit – NH State Police, (May) Concord, NH, 2016
- ◆ Cyber Security for IT Professionals, FEMA, Dept. of Homeland Security, 2015
 - Information Security Basics, (March), Concord, NH
 - Secure Software, (March), Concord, NH
 - Network Assurance, (April), Concord, NH
 - Digital Forensics Basics, (April), Concord, NH

- ◆ Conflict Resolution, (April), State of NH, Bureau of Education & Training, Concord, NH, 2015
- ◆ National Cyber Crime Conference, (May), MA Attorney General's Office, Norwood, MA, 2015
 - X-Ways Forensic
 - Solid State Devices (SSD)
 - Cyber Terrorisms
 - Connecting the Dots with XAMN - MSAB
 - DOD Resources for Law Enforcement
 - Processing JTAG Extractions w/ Dedicated Chains – Cellebrite
 - Case Review of “Silk Road”
 - Smartphone Forensics Importing, Exporting and Decoding Binary Files with XRY & XACT
 - Forensic Analysis of Databases on Smartphones (SQLite and ESE)
 - Advanced Browser Forensics: What Your Tools Don't Reveal
 - Smartphone Malware Identification and Examination
 - Rapid Timeline Analysis Using Plaso
- ◆ Ethics and Data Integrity Training, 2015
- ◆ ASCLD/LAB Corrective Action Process: Root Cause Analysis (Sept) Concord, NH, 2015
- ◆ Cyber Security for Business Professionals – Business Managers, FEMA, DHS, 2015
 - Business Information Continuity, (September), Concord, NH
 - Information Risk Management, (September), Concord, NH
 - Cyber Incident Analysis and Response, (September), Concord, NH
 - XRY Mobile Forensics Certification and XRY Intermediate Certification (Nov) Largo, FL
- ◆ Federal Law Enforcement Training Center, (January) Macintosh Forensics Training Program, MFTP-401, Glynco, GA, 2014
- ◆ Managing a Digital Evidence Forensic Laboratory - IACIS, (May), Maitland, FL, 2014
- ◆ Re-Certification of Forensic Computer Examiner - International Association Computer Investigative Specialist, 2014
- ◆ BlackLight Tool Training and Certification, (July), Boston, MA, 2014
- ◆ SANS – SEC401 Security Essentials Boot Camp, (December), Concord, NH, 2014
- ◆ National Cyber Crime Conference, MA Attorney General's Office, Norwood, MA, 2013
 - Cyber-Investigation 205 (GPS Interrogation)
 - Registry Analysis
 - Finding Unknown Malware
 - Open Source Forensics
 - Imaging with TD3
 - Volume Shadow Copy Forensics
 - iDevices
 - Writing an Expert Digital Forensic Report

- ◆ Identification, Preservation, Collection Handheld Devices, DOJ, Concord, NH, 2013
- ◆ AccessData's FTK Mac Forensics, Concord, NH, 2013
- ◆ Guidance Software, Encase Training, Computer and Enterprise Investigations Conference, Orlando, FL, 2013
 - Investigation of Kindle Fire
 - Raw Data Carving
 - Industry Keynote
 - Writing Expert Reports and Defending them in court
 - Computer Forensics and Testimony
 - Correlating Forensic Results from Multiple OS
 - Custom Analysis with EnCase v7
 - Advanced Reporting
 - MAC OS X Delving A little Deeper
 - SSD Forensics
 - Using Random Sampling to reduce your backlog
 - When MACS Get Hacked
- ◆ AccessData's FTK Linux Training, Concord, NH, 2013
- ◆ AccessData's FTK Internet Forensics Training, Concord, NH, 2013
- ◆ AccessData's FTK Windows Seven Forensics, Concord, NH, 2013
- ◆ AccessData's FTK Windows 8 Forensics, Concord, NH, 2013
- ◆ National Cyber Crime Conference, MA Attorney General's Office, Norwood, MA, 2012
- ◆ Re-Cert of Forensic Computer Examiner - International Computer Investigative Specialist, 2011
- ◆ Guidance Software, Encase Training, Computer and Enterprise Investigations Conference, Orlando, FL, 2011
- ◆ Mac OS X Forensic Training, MacMarshal, Portland, ME, 2011
- ◆ ASCLD/LAB-*International* Preparation Course, Burlington, MA, 2011
- ◆ NIJ and WVU Forensic Science Initiative, Boston, MA, 2010
 - Intro to Mobile Phone Evidence
 - Intro to Recovery of Evidence from Video Systems
- ◆ Portable Fire Extinguishers, NH Department of Safety-Fire Standards, Concord NH, 2009
- ◆ Guidance Software, Encase V6 Forensic I Course, Tampa, FL, 2009
- ◆ Ethics in Forensic Science: Value Based Decision Making, Concord, NH, 2008
- ◆ Re-Cert of Forensic Computer Examiner - International Computer Investigative Specialist
- ◆ Courtroom Testimony Techniques: Success Instead of Survival, Kingston, RI, 2008
- ◆ National White Collar Crime, Fast Cyber Forensic Triage, Concord NH, 2008
- ◆ AccessData Forensic Tool Kit, Windows Forensics, Burlington, MA, 2007
- ◆ AccessData's FTK Boot camp (Ultimate Forensic Tool Kit), PSTC, Concord, NH, 2006

- ◆ National White Collar Crime, Intermediate Data Recovery & Analysis, PSTC, Concord, NH, 2006
- ◆ Certified Forensic Computer Examiner Course, International Association Computer Investigative Specialist, Altamonte Springs, FL, 2006
- ◆ AccessData's FTK, Case Reviewer, Train the Trainer, PSTC, Concord, NH, 2006
- ◆ Guidance Software, Encase Training, Computer and Enterprise Investigations Conference, Las Vegas, NV, 2006
- ◆ SEARCH, Introduction to Internet Crime Investigation, PSTC, Concord, NH, 2005
- ◆ National White Collar Crime, Basic Data Recovery & Analysis, Concord, NH, 2005
- ◆ SEARCH, Investigation of Computer Crime, PSTC, Concord, NH, 2005
- ◆ Tech Agent: Frontpage XP, Micro C Training Center, Newington, NH, 2003
- ◆ PC School House, Developing Training for Personal Computers, Manchester, NH, 1999
- ◆ S.P.O.T.S. 3~Day Certification, NHSP, Concord, NH, 1999
- ◆ Rockhurst College, Administering & Supporting MS Windows NT, Portsmouth, NH, 1999
- ◆ Compensation Funds of NH, Delivering Exceptional Service, Rochester, NH, 1998
- ◆ NHTI, Netware 520 Intranet Ware 4.11, Network Administration, Concord, NH, 1997

Presentations:

- ◆ Guest Lecturer at The New Hampshire Bar Association Continuing Legal Education (CLE) Program, Concord, NH -- Presented the topic "*Computer and Cell Phone Forensic Analysis*" as part of the *Forensic Science: Inside the NH State Forensic Laboratory* program. 2016
- ◆ Guest Radio Interview, sponsored by Manchester Community College, Manchester, NH, 2015
- ◆ Guest Lecturer at NHTI, freshman class of Computer Science, Concord, NH, 2014