

CURRICULUM VITAE

JAMES R. SWAUGER

Digital Forensic Examiner

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CERTIFICATIONS AND LICENSURE

- **CFCE** – Certified Forensic Computer Examiner, IACIS
- **CISSP** – Certified Information Systems Security Professional, (ISC)²
- **EnCE** – Encase Certified Examiner, Guidance Software Inc.
- **CEECS** – Certified Electronic Evidence Collection Specialist, IACIS
- **DFCP** – Digital Forensics Certified Practitioner, DFCB
- **SCERS** – Seized Computer Evidence Recovery Specialist, Federal Law Enforcement Training Center
- **A+** Certified Computer Technician, CompTIA
- **Network+** Certified Technician, CompTIA
- **LPI** – Licensed Private Investigator, Ohio License No. 2003005424, Ohio Department of Public Safety, Division of Homeland Security

PROFESSIONAL AFFILIATIONS

- **IACIS** – International Association of Computer Forensic Specialists
- **(ISC)²** – International Information Systems Security Certification Consortium, Inc.
- **ISSA** – Information Systems Security Association

PROFESSIONAL EXPERIENCE

BINARY INTELLIGENCE, LLC

Digital Forensic Examiner/Partner, *September 2000 – Present*

- Perform advanced research and process development in the areas of chip-off forensics, JTAG forensics, ISP forensics and other emerging mobile device data extraction techniques.
- Acquire physical memory images from cellular phones and other mobile devices which are physically damaged, security locked, or unsupported by traditional mobile device forensic utilities.
- Identify and preserve digital evidence stored on computer systems, cellular phones, digital storage media, cloud accounts, social media sites and other repositories of electronically stored information.
- Conduct digital forensic examinations and high-tech investigations for law enforcement agencies, law firms, corporations and individuals.
- Develop curriculum and deliver training related to the physical forensic acquisition and analysis of mobile phones and other devices which utilize flash memory technology.

NATIONAL CITY CORPORATION (PNC FINANCIAL SERVICES GROUP)

Lead Technical Security Investigator, *December 2005 – January 2009*

- Directed technical investigations, computer forensics, incident response and electronic discovery activities.
- Monitored network infrastructure and perimeter systems for evidence of compliance violations, internal threats, data leaks and rogue computer/network devices.
- Provided investigative support to human resources, legal counsel and risk management personnel.
- Presented evidence and represented the corporation at unemployment compensation hearings and other judicial or administrative proceedings.
- Served as corporate liaison with law enforcement, outside counsel and auditors.

OHIO BUREAU OF CRIMINAL INVESTIGATION, COMPUTER CRIMES UNIT

Computer Forensic Specialist II, *October 1997 – December 2005*

- Served as the lead computer forensic expert for the Ohio Attorney General's Office.

- Conducted computer forensic examinations and prepared investigative reports.
- Presented cases before grand juries and offered expert testimony at trial.
- Performed on-site computer evidence collection at crime scene and search warrant locations.

CINCINNATI BELL INFORMATION SYSTEMS (CONVERGYS CORPORATION)

Programmer/Analyst and Database Administrator, *June 1995 – October 1997*

- Re-engineered cellular phone billing software to enhance functionality and efficiency.
- Regulated the design, performance, and security of critical client databases.

EDUCATION

Bachelor of Business Administration in Information Systems (1995)

Carl H. Linder College of Business
University of Cincinnati

SPECIALIZED TRAINING AND CONFERENCES

- Open Source Intelligence (OSINT) for Forensics, eForensics, 2019
- Intella Basics, Vound, 2019
- Paraben’s Forensic Innovation Conference (PFIC), 2017
- EnFuse Conference, 2017
- iOS Forensic Analysis, Syntricate, 2015
- Computer and Enterprise Investigation Conference, 2014
- Computer and Enterprise Investigation Conference, 2012
- Computer and Enterprise Investigation Conference, 2011
- Ohio High Technology Crime Investigation Association Spring Training Conference, 2010
- Mobile Forensics World , 2010
- Computer and Enterprise Investigation Conference, 2009
- Security 508 – Computer Forensics, Investigation, and Response, SANS Institute, 2008
- Ohio High Technology Crime Investigation Association Regional Conference, 2008
- Ohio Information Security Summit, 2007

- Security 617 – Assessing and Securing Wireless Networks, SANS Institute, 2007
- Ohio Information Security Forum, 2007
- High Technology Crime Investigation Association International Training Conference and Expo, 2006
- The Evil Insider, Information Systems Security Association, 2006
- Ohio Information Security Summit, 2005
- Security 504 – Hacker Techniques, Exploits, and Incident Handling, SANS Institute, 2004
- Information Security and Forensics, Ohio High Technology Crime Investigation Association, 2004
- Ultimate Toolkit Computer Forensics, AccessData, 2003
- Ohio High Technology Crime Investigation Association Annual Training Conference, 2002
- Seized Computer Evidence Recovery Specialist Training, Federal Law Enforcement Training Center, 2002
- Linux and BeOS for Law Enforcement, Ohio High Technology Crime Investigation Association, 2002
- Techno-Security Training Conference, 2001
- Internet Investigations and Profiling, Consulting Investigation Services, 2000
- Techno-Security Training Conference, 2000
- Anatomy of an Intrusion, International Association of Computer Investigative Specialists, Advanced Training, 2000
- Forensic Seizure and Examination of Linux Operating Systems, International Association of Computer Investigative Specialists Advanced Training, 1999
- Forensic Examination of Novell and Windows NT Networks, International Association of Computer Investigative Specialists Advanced Training, 1999
- Advanced Forensic Computer Science Course, New Technologies Incorporated, 1999
- International Association of Computer Investigative Specialists Forensics Training Conference, 1998
- Basic Data Recovery and Analysis, National White Collar Crime Center, 1998
- Advanced Unix and Internet Security, Computer Security Institute, 1997
- CSI 24th Annual Training Conference, Computer Security Institute, 1997

PRESENTATIONS AND INSTRUCTION

“ADVANCED PHYSICAL EXTRACTIONS – AN OVERVIEW OF CHIP-OFF, JTAG, & ISP (LIVE PROCESSING DEMO)”

Paraben’s Forensic Innovation Conference, Pittsburgh, Pennsylvania, 2017

“INTRODUCTION TO JTAG & CHIP-OFF FORENSICS: ADVANCED MOBILE DEVICE ACQUISITION TECHNIQUES”

Five Day Course, Binary Intelligence/Syntricate, Franklin, Ohio, 2015-2016 (various dates)

“ADVANCED FLASH MEMORY FORENSICS: CHIP-OFF AND JTAG FUNDAMENTALS”

Five Day Course, Binary Intelligence, Franklin, Ohio, 2015

“INSIDER THREATS: THEFT, FRAUD & CORRUPTION IN THE WORKPLACE”

Fifth Third Bank Innovation Series, Columbus, Ohio, 2013

“CHIP-OFF & JTAG FORENSICS: ADVANCED MOBILE DEVICE PHYSICAL MEMORY ACQUISITION TECHNIQUES”

Three Day Course, Binary Intelligence, Franklin, Ohio, 2013

“DIGITAL FORENSICS AND E-DISCOVERY”

Dayton Bar Association CLE Roundup, Dayton, Ohio, 2012

“MOBILE DEVICE FORENSICS: TECHNOLOGY AND TECHNIQUES”

Southern Ohio Association of Private Investigators, Mason, Ohio, 2010

“E-DISCOVERY: THE INVESTIGATION (COMPUTER FORENSICS)”

Dayton Bar Association Civil Trial Practice & ADR committee, Dayton, Ohio, 2009

“LINUX FORENSIC DATA ACQUISITION AND ANALYSIS”

Ohio High Technology Crime Investigation Association Annual Training Conference, Salt Fork State Park and Conference Center, Cambridge, Ohio, 2003

“PROTECTING AGAINST CYBER-ATTACKS”

Joint Seminar on Terrorism Preparedness for Small Businesses. Workshop facilitated by the Small Business Development Center and The University of Findlay Center for Terrorism Preparedness, Ohio Department of Public Safety, Columbus, Ohio, 2003

“HARDWARE AND SOFTWARE SOLUTIONS FOR COMPUTER FORENSIC EXAMINERS”

Ohio High-Technology Crime Investigation Association Chapter Meeting, BCI Headquarters, London, Ohio, 2003

GUEST INSTRUCTOR FOR VARIOUS COMPUTER CRIME FIRST RESPONDER COURSES

Ohio Peace Officer Training Academy, London, Ohio, Various Dates 1999 – 2003

PUBLICATIONS

Swauger, J., Larson, S., & Jones, J. “A Forensic First Look at a POS Device: Searching for PCI DSS Data Storage Violations” Annual ADFSL Conference on Digital Forensics, Security and Law, May 2019.

Swauger, J. “Chip-Off Forensics: Extracting a full bit-stream image from devices containing embedded flash memory.” Digital Forensics Magazine, February 2012: 52-56.

PROFESSIONAL HONORS

Ohio High Technology Crime Investigation Association (HTCIA) Hall of Fame Induction for “Outstanding Professionalism and Continuing Expertise in the Investigation of Crimes Involving Advanced Technologies”, 2002

TESTIMONY

Rita Meeks v. Robert Newcomb, Celadon Trucking Services, Inc., and Wabash National Corp., 2018 (Deposition)

United States District Court for the Northern District of Georgia Newnan Division
Case No. 3:16-CV-0193-TCB

Frank Kruse v. Mobile Infirmary Medical Center, 2018 (Deposition)

Circuit Court of Mobile County Alabama
Case No. CV-2016-902066

State of Ohio v. Ernest Cephas, 2018

Hamilton County Court of Common Pleas, Ohio
Case No. B1603911

Jonathan Groves, et al. v. Fed Ex Ground Package Systems, et al., 2017 (Deposition)

Rockcastle Circuit Court Division II
Case No. 16-CI-00005

State of Illinois v. Clavin Lewis Carter III, 2017

Winnebago County Illinois 17th Judicial Circuit Court, Illinois
Case No. 2014CF003136

***State of Ohio v. Drakkar Harris*, 2017**

Hamilton County Court of Common Pleas, Ohio
Case No. B1502209

***State of Michigan v. John Brown*, 2017**

Third Judicial Circuit of Michigan, Michigan
Case No. 16-008223-02-FC

***Champion Food Service, LLC v. Vista Food Exchange, Inc., et al.*, 2016**

United States District Court for the Northern District of Ohio Eastern Division
Case No.: 1:13-CV-1195

***State of Ohio v. John Cochran*, 2016**

Montgomery County Court of Common Pleas, Ohio
Case No. 2014-CR-1930

***United States of America v. \$11,000 in United States Currency, et al.*, 2016 (Deposition)**

United States District Court for the Eastern District of Kentucky at Covington
Case No. 2:14-cv-00125-WOB-JGW

***State of Ohio v. Rebecca Drobnick, et al.*, 2015**

Franklin County Court of Common Pleas, Ohio
Case No. 13CVH-04642

***People v. Todd Lamere*, 2015**

Marquette County 25th Judicial Circuit Court, Michigan
File No. 14-052664-FH

***State of Ohio v. Mike Neal*, 2014**

Warren County Court of Common Pleas, Ohio
Case No. 13-CR-29715

***State of Ohio v. Lynntonio Watson*, 2014**

Montgomery County Court of Common Pleas, Ohio
Case No. 2013-CR-02983

***Champion Food Service, LLC v. Vista Food Exchange, Inc., et al.*, 2014 (Deposition)**

United States District Court for the Northern District of Ohio Eastern Division
Case No.: 1:13-CV-1195

***Definitive Solutions Company v. Michael J. Sliper, et al.*, 2014**

Hamilton County Court of Common Pleas, Ohio
Case No. A1110530

Martin D. Shell v. Mount Carmel Health Systems dba Mount Carmel East Hospital, 2013

Franklin County Court of Common Pleas, Ohio

Case No. 11CV0058381

Lorna Cuil v. Ronald Cuil, 2013

Warren County Court of Common Pleas, Ohio

Case No. 12-DR-35806

Timothy W. Humpries v. David A. Chicarelli, et al., 2012 (Deposition)

United States District Court for the Southern District of Ohio Western Division at Cincinnati

Case No.: 1:10CV00749

Freeman Industrial Products, LLC, et al. v. Victory Industrial Products, et al., 2012

Clermont County Court of Common Pleas, Ohio

Case No. 2010 CVH 1023

Constance Moran v. Lesly Radtke, 2011

Franklin County Court of Common Pleas, Ohio

Case No. 09CVH07-10321

Ameican Heritage Banco, Inc., et al v. Earl Ford McNaughton, et al., 2009 (Deposition)

Steuben Circuit Court, Indiana

Cause No. 76C01-0603-PL-0156

Scott Eckstein v. Faith Eckstein, 2010

Mahoning County Court of Common Pleas, Ohio

Case No. 2008-DR-683

ACMG of Louisiana, Inc. and ACMG, Inc., v. Towers Perrin, Inc., 2008

United States District Court for the Northern District of Georgia Atlanta Division

Case No.: 1:04-CV-1338 RWS

State of Ohio v. Sean A. Lloyd, 2006

Montgomery County Court of Common Pleas, Ohio

Case No. 2006-CR-0081

State of Ohio v. Scott A. Wagner, 2003

Licking County Court of Common Pleas, Ohio

Case No. 2003-CR-00051

State of Ohio v. Nicole Gilmore, 2002

Warren County Court of Common Pleas, Ohio

Case No. 01-CR-19448

State of Ohio v. Eugene Robert Anderson, 2002
Washington County Court of Common Pleas, Ohio
Case No. 01-CR-00238