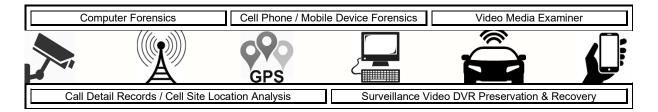
Curriculum Vitae of Ernest J. Koeberlein



Expertise Summary

| Call Detail Records / Cell Site Location Analysis | Cell Phone / Mobile Device Forensics |
|---|--|
| Computer Forensics | Google Location Services Mapping |
| Vehicle Infotainment / Navigation Systems | GPS Technology & Mapping |
| Surveillance Video DVR Preservation & Recovery | Certified Telecommunications Subject Matter Expert |
| Video Media Examiner | |

Work Experience

| NASA / Jet Propulsion Laboratory (JPL) | Employee / Contractor | 1985 - 2015 |
|---|--|----------------|
| Raytheon: Mission & Operations Services / DSIO | Chief of IT Security | 2006 - 2015 |
| ITT Technical Institute: School of Criminal Justice | Adjunct Instructor: Computer Forensics | 2011 - 2012 |
| IncidentResponse.us | CEO & Senior Digital Forensic Examiner | 2008 - Present |

College Education

| Bachelors of Science: Majoring in Physics | Allegheny College | 1989 |
|--|--------------------|------|
| Masters of Arts in Criminal Justice: Majoring in Digital Forensics | DeSales University | 2011 |
| GPA 4.0: Top of class | | |
| AΦΣ National Criminal Justice Honors | | |

Qualified As Expert Witness At

| United States District Court: Central District of California | |
|--|-------------------------|
| Los Angeles | |
| Riverside | |
| | |
| State of California, State Personnel Board | |
| | |
| Superior Court of California, County of Los Angeles | |
| Clara Shortridge Foltz Criminal Justice Center | Compton Courthouse |
| Inglewood Courthouse | Pomona Courthouse |
| Torrance Courthouse | Van Nuys Courthouse |
| Michael D. Antonovich Antelope Valley Courthouse | Eastlake Juvenile Court |
| Governor George Deukmejian Courthouse | |
| | |
| Superior Court of California, County of Orange | |
| Santa Ana Courthouse | |
| | |
| Superior Court of California, County of Riverside | |
| Indio Courthouse | |
| Riverside Hall of Justice | |
| Southwest Juvenile Courthouse | |
| | |
| Superior Court of California, County of San Bernardino | |
| San Bernardino Justice Center | |
| Rancho Cucamonga District Court | |
| | |
| Superior Court of California, County of Fresno | |
| Fresno | |





IncidentResponse.us: A Digital Forensic Laboratory of Excellence 1205 Los Robles PI, Pomona, CA 91768 PS, CCLO/CCPA (888) 330-5550

Ernest J. Koeberlein Incide Masters: Criminal Justice / Digital Forensics EnCE, CCE, CISSP, CHFI, CEH, CBE, GCFE, iVe, GPS, CCLO/CCPA

Pre-Qualified Appointments

| County of Los Angeles Superior Court Panel of Expert Witnesses | | | | |
|--|--|--------------------------|--------------------|--|
| Call Detail Record / Cell Tower Analysis Cell Phone Forensics GPS Mapping & Analysis | | | | |
| | Vehicle Infotainment/Navigation Systems | Google Location Services | GPS Mapping | |
| | Security DVR Data Recovery/Preservation | Video Forensics | Computer Forensics | |
| | Video Authentication and Source Identification | | | |

Certification & Licenses Summary

(For more details see Certification & Licenses Detail section)

| (For more details see Certification & Licenses Detail section) | |
|--|---|
| EnCase Certified Examiner (EnCE) | Certified Computer Examiner (CCE) |
| Certified Information Systems Security Professional (CISSP) | CompTIA Security+ Certification |
| California Private Investigator License (CA PI #27470) | Computer Hacking Forensic Investigator (CHFI) |
| Certified Cellebrite Mobile Phone Forensic Investigator | EC-Council Certified Ethical Hacker (CEH) |
| Mobile Phone Seizure Certification | Certified Cellebrite Advanced Smart Phone Forensic Investigator |
| Cellebrite Certified Logical Operator (CCLO) | Blackthorn / GPS Certification |
| Cellebrite Certified Physical Analyst (CCPA) | Certified BlackLight Examiner (CBE) |
| GIAC Certified Forensic Examiner (GCFE) | X1 Social Discovery |
| Vehicle Forensics Certification (iVe) | DVR Examiner Certified User |
| Cellebrite Drone Data Analysis NW3C Certified Cyber Crime Examiner | |
| FAA Part 107 Licensed sUAS Pilot | Cellebrite Certified Operator (CCO) |
| Certified Telecommunications Network Specialist (CTNS) | Certified Wireless Analyst (CWA) |
| Certified Forensic Explorer Examiner | NW3C Certified Cyber Crime Examiner |
| NW3C Certified Cyber Crime Investigator (3CI) | Certified VoIP Analyst (CVA) |
| Certified Telecommunications Analyst (CTA) | Certified Telecommunications Subject Matter Expert (CTSME) |
| Certified Vehicle System Forensic Technician (CVST) | Certified Vehicle System Forensic Examiner (CVSE) |
| Medex Certified Media Examiner (MCME) | NW3C Certified Cyber Crime Intelligence Analyst (3CIA) |
| | |

Professional Memberships, Organizations, & Task Forces Summary

| Los | Angeles | FRI | Citizane' | Academy | Alumni | Association |
|-----|----------|-----|-----------|---------|-----------|-------------|
| LUS | Allueles | гы | Citizens | Academy | Alullilli | ASSOCIATION |

Federal Bureau of Investigation Infragard

United States Secret Service/Department of Homeland Security: Electronic Crime Task Force, Los Angeles

United States Secret Service/Department of Homeland Security: Los Angeles Cyber Fraud Task Force

International Association of Computer Investigative Specialists (IACIS)

International Association of Computer Investigative Specialists (IACIS) Research and Development Subcommittee

International Society of Forensic Computer Examiners (ISFCE)

Institute of Electrical and Electronics Engineers (IEEE)

IEEE - Aerospace and Electronic Systems Society

IEEE - Antennas and Propagation Society

IEEE - Computer Society

IEEE - Vehicular Technology Society

IEEE - Standards Association (IEEE-SA)

ASTM International: Committee E30 on Forensic Sciences

ASTM International: Subcommittee E30.12 - Digital and Multimedia Evidence

International Information Systems Security Certification Consortium (ISC)²

Espionage Research Institute International (ERII)

Association of Court Panel Investigators

California Attorneys for Criminal Justice (CACJ)

National Defender Investigator Association (NDIA)

International Association of Cyber & Economic Crime Professionals (IACECP)

National Association of Criminal Defense Lawyers

The Association of Digital Forensics, Security, and Law (ADFSL)

AΦΣ National Criminal Justice Honors Society

Association of Certified Fraud Examiners (ACFE)

Criminal Courts Bar Association

International Crime Scene Investigators Association

American Bar Association

San Bernardino County Bar Association

Armed Forces Communications & Electronic Association (AFCEA)

Law Enforcement and Emergency Services Video Association International, Inc. (LEVA)

Airborne Law Enforcement Association (ALEA)

Federal Bar Association

Cellebrite Design Partner Program





Digital Forensic Related Training/Seminars

| Digital Forensic Related Training/Seminars | | |
|---|------|-----------|
| IACIS – AVF – Advanced Video Forensics Course | 2023 | 36 hours |
| LEVA Level 1: Forensic Video Analysis & the Law | 2023 | 40 hours |
| Amped FIVE Software Training | 2023 | 20 hours |
| Medex Examiner Video Authentication & Source Identification Training | 2022 | 16 hours |
| Video Evidence Training Symposium | 2022 | 16 hours |
| Techno Security & Digital Forensics Conference: San Diego, CA | 2021 | 24 hours |
| Cellebrite CCO + CCPA Refresher Course | 2021 | On demand |
| Vehicle System Forensics Course (refresher) | 2021 | 40 hours |
| How to Write a Bulletproof Expert Witness Report | 2020 | 14 hours |
| How to Be An Effective Expert Witness | 2020 | 14 hours |
| Forensic Analysis and Authentication of Digital Images: National Center for Media Forensics | 2020 | 16 hours |
| Video Evidence Training Symposium | 2020 | 16 hours |
| Techno Security & Digital Forensics Conference: San Diego, CA | 2020 | 24 hours |
| GPS Operation for Engineers & Technical Professionals | 2019 | 32 hours |
| Myth & Realities of Cell Site Coverage Areas by Hawk Analytics | 2019 | 2 hours |
| MPLS and Carrier Networks | 2019 | 8 hours |
| IP Networks, Routers and Addresses | 2019 | 8 hours |
| Ethernet, LANs and VLANs | 2019 | 8 hours |
| The OSI Layers and Protocol Stacks | 2019 | 8 hours |
| Wireless Telecommunications | 2019 | 8 hours |
| POTS and The PSTN | 2019 | 8 hours |
| Cellebrite Certified Operator / Physical Analyst (refresh) | 2019 | 40 hours |
| Forensic Explorer Certified Examiner Certification Class (refresh) | 2018 | 32 hours |
| Vehicle Forensics & iVe Certification (refresh) | 2018 | 40 hours |
| Cellebrite Drone Data Analysis (CDDA) Course | 2018 | 24 hours |
| Techno Security & Digital Forensics Conference (San Antonio) | 2018 | 24 hours |
| Advanced Mobile Forensic Analysis with Python | 2018 | 40 hours |
| 2nd Annual Cellebrite Americas User Forum | 2018 | 8 hours |
| Paraben Forensic Innovations Conference | 2018 | 24 hours |
| Part 107 Test Prep: Dart Drones | 2018 | 8 hours |
| Drone Pilot Training: Dart Drones | 2018 | 8 hours |
| Scientific Working Group on Digital Forensics/SWGDE (New Brunswick) | 2018 | 32 hours |
| Complete Forensic Video Acquisition and Processing | 2018 | 40 hours |
| Forensic Explorer Certified Examiner Certification Class | 2018 | 32 hours |
| Python for Advanced Mobile Forensic Analysis | 2018 | 40 hours |
| Scientific Working Group on Digital Forensics/SWGDE (Houston) | 2018 | 32 hours |
| DVR Examiner User Certification | 2017 | 24 hours |
| Preparing for Lab Accreditation | 2017 | 36 hours |
| Scientific Working Group on Digital Forensics/SWGDE (UCLA) | 2017 | 8 hours |
| GeoTime Call Detail Records Processing Training | 2017 | 8 hours |
| Real Time Cell Phone Investigations | 2017 | 16 hours |
| OCDLA / CACJ Criminal Justice Seminar | 2017 | 8 hours |
| OCDLA / CACJ Criminal Justice Seminar | 2016 | 8 hours |
| Enfuse Conference 2016 | 2016 | 20 hours |
| SANS FOR585:Advanced Smartphone Forensics | 2015 | 36 hours |
| CEIC Conference 2015 | 2015 | 20 hours |
| Cell Data and Mapping-Police Technical @ WSIN | 2015 | 16 hours |
| GetData Forensics: Forensic Explorer Examiner | 2015 | 24 hours |
| Mobile Forensics World 2014 | 2014 | 36 hours |
| SANS FOR518: Mac Forensic Analysis | 2014 | 36 hours |
| Vehicle Forensics & iVe Certification | 2014 | 24 hours |
| SANS FOR408: Windows Forensic Analysis | 2014 | 36 hours |
| BlackLight Tool Training (Mac OSX/iOS) | 2014 | 16 hours |
| Cellebrite Mobile Device Examiner (CCLO/CCPA) Course | 2014 | 24 hours |
| GPS Forensics | 2014 | 24 hours |
| 2014 PICA Annual Education Conference | 2014 | 16 hours |
| Cell Call Detail Record Analysis & Cell Tower Mapping | 2013 | 16 hours |
| Cellebrite Advanced Smart Phone Extraction | 2013 | 32 hours |
| Open Source Intelligence Training | 2012 | 8 hours |
| Cellebrite Logical and Physical Cell Phone Extraction | 2012 | 40 hours |
| Graduate Class Forensic Science & the Courtroom | 2012 | 12 weeks |
| Graduate Class Computer Hacking Forensic Investigation | 2011 | 12 weeks |





Ernest J. Koeberlein Masters: Criminal Justice / Digital Forensics

EnCE, CCE, CISSP, CHFI, CEH, CBE, GCFE, iVe, GPS, CCLO/CCPA

| Graduate Class Hacking Countermeasures & Techniques | 2011 | 12 weeks |
|---|------|----------|
| Graduate Class Advanced Topics in Digital Forensics | 2011 | 12 weeks |
| Graduate Class Issues in Criminal Law, Procedure, Justice | 2011 | 24 weeks |
| Graduate Class Ethical Hacking Techniques | 2011 | 12 weeks |
| Graduate Class Computer Forensics | 2010 | 18 weeks |
| Information Systems Security Review Training | 2010 | 70 hours |
| Graduate Class Network Forensics | 2010 | 12 weeks |
| GSI/Encase: Computer Forensics 1 | 2009 | 32 hours |
| GSI/Encase: Advanced Computer Forensics | 2009 | 32 hours |
| GSI/Encase: Network Intrusion Investigations | 2009 | 32 hours |
| GSI/Encase: Field Intelligence Network Forensics | 2009 | 32 hours |
| GSI/Encase: Computer Forensics 2 | 2009 | 32 hours |
| GSI/Encase: Advanced Internet Examinations | 2009 | 32 hours |
| GSI/Encase: EnScript Programming | 2009 | 32 hours |
| GSI/Encase: EnCE Prep | 2009 | 24 hours |

FBI / Infragard Training

FBI Citizens Academy: Class of 2011

FBI Joint Regional Intelligence Center – Pre Incident Indicators

FBI Joint Regional Intelligence Center Liaison Officer Training

FBI/Orange County Sheriff's - Passive Interview & Deception Detection

FBI/Naval Postgraduate School - Center for Asymmetric Warfare Cyber Attack & Security Exercise

Career Related Awards

SAN's Lethal Forensicators Unit Coin

O "The Coin, Round Metal Object (RMO), is designed to be awarded to those who demonstrate exceptional talent, contributions, or helps to lead in the digital forensics profession and community. The Coin is meant to be an honor to receive it; it is also intended to be rare. Those who join the Lethal Forensicators Unit will have all privileges and recognition"

NASA Class 1 New Technology Disclosure Award

Voyager 2 Project Neptune Encounter Mission Award

NASA Achievement Award: Voyager Flight Team, Neptune Encounter

NASA Achievement Award: Multimission Operations System Office Support Team

NASA Achievement Award: Voyager Flight Team, Uranus Encounter

NASA Achievement Award: Ulysses Mission Design and Ops Engineering Team

Raytheon: Outstanding Performance Contribution Award (7 times)

Raytheon: Security Technology Award (2 times)

Raytheon: Extraordinary Contribution Award (5 times)

Digital Forensics Awareness Training Given To:

| 2014 |
|------|
| 2014 |
| 2015 |
| 2015 |
| 2017 |
| 2017 |
| 2017 |
| 2018 |
| 2018 |
| 2019 |
| 2020 |
| 2023 |
| |

Security DVR DVR Recovery Awareness Training Given To:

| High Te | ch Crime Investigators As | ssociation (HTCIA): Southern | California Chapter | 2019 |
|---------|---------------------------|------------------------------|--------------------|------|





Continuing Education, Seminars, Workshops type Training

Examining GPS Devices Using EnCase / Guidance Software Inc.

File Recovery using Hash Block Map Analysis / Guidance Software Inc.

Protecting Your Assets in a Virtual Culture / FBI / University of Southern California

Understanding Assets and the Virtual Culture / Dr. Blaine Burnham / USC

Cross-Examining Expert Witnesses / Traci Owens

Using Technology in the Courtroom / Cris Arguedas & Chris Ritter

NAS & the State of Scientific Evidence / Professor Edward Imwinkelried

Analyzing Audio & Video Evidence / James Griffin

Case Study: State v Fausto: Bias & Uncertainty in the Quest for Justice / Ted Vosk

Cellular Phone Evidence: Data Extraction & Documentation/ Det. Cindy Murphy

Decoding Windows Prefetch / James Habben / Guidance Software Inc.

Email Investigations with EnCase v7 / Manfred Hatzesberger / GSI

The Attorney / Private Investigator Relationship / David Queen, Esq.

Computer Forensics: A Criminal Defense Perspective / Kevin Ripa

Evaluating and Challenging Forensic Identification Evidence / Professor M. Saks

Ares and Lime Pro Peer to Peer File Sharing Software Analysis

Ubiquity Forensics - Your iCloud and You

Trademark Infringement and Piracy/ Kris Buckner

Using the Web to Investigate Government Experts / Richard Demarest, JD

Windows 8 Forensic Artifacts / Guidance Software Inc.

The Scientific Method: Defending Your Case with Superior Science / Andrea Roth

Internet & Mobile Forensics with Internet Evidence Finder / Jad Saliba

Vehicle Infotainment Systems and the Data They Store / Ben LeMere

Admissibility: Getting Defense Science to the Jury / Judge Roderick Kennedy

Cognitive Bias / William C. Thompson

Protecting Proprietary Information / Raytheon Company

Mac Essentials and the HFS+ File System / Sarah Edwards / SANS Institute

OSX Advanced Analysis Topics / Hal Pomeranz / SANS Institute

Windows Digital Forensics and Advanced Data Triage

Email Forensics

Web Browser Forensics

Legal and Technology Developments

Anti-Anti-Forensics in Action / SANS Institute

Intellectual Property Theft: Tracking the Bits and Bytes

New Advances in Digital Forensics

Writing Expert Reports and Providing Expert Testimony

Integrating GPS Analysis into Digital Investigations

United States Secret Service: Electronic Crime Task Force Quarterly Meeting 2017.1

Cybersecurity and the Internet of Things (IoT) / Ernst Young

Artifacts in the Cloud and the Impact on Forensics / Tayfun Uzun

From Intake to Court: Using Case Management to Stay on Track

Issues trending in algorithms, computer code and IP law in the Crim Justice System

Live Memory Forensics/ High Technology Crime Investigation Association

EnCase v7 Evidence Processor / Guidance Software Inc.

Security for Critical Infrastructure and Other Federated Systems / Dr. B Clifford / USC

Carpe Datum... Seize the Data: Computer Forensics Evidence / Rick Albee

Investigating Crime Labs / Jennifer Friedman

Effective Use of Data Forensics / Aaron Hughes

Using Online Technology in Your Investigation / William Gallagher

Finding, Funding, and Using an Expert / Steve Benjamin

Investigating the Government's Forensic Investigation / Dr. Federic Whitehurst

Collection and Analysis of RAM / Michael Webber / BitSec Global Forensics

Corporate Investigations / Jimmy Doyle / VP, Corporate Investigations, Prudential

Big Brother Forensics / Chad Tilbury / SANS Computer Forensics & e-Discovery

Cellular Forensics: People, Rumors, and the Actual Facts / Kevin Ripa

Pre-Trial Hearings & Discovery to set the stage for Persuasive Use of Experts

Crossing the State's Expert: Reasonable Doubt with a Well-Crafted Cross

Windows ShellBag Forensics in Depth

The Battle for iCloud: Over-the-Air Forensics vs. Apple's Two-Factor Authentication

The Lessons of Science: What Lawyers and Judges need to know / Alan Gold

Going Behind the Lab Report & into the Lab: What Labs Don't Want You to Know

Forensic Audio & Video Enhancement / Doug Carner

Comprehensive & Comprehensible Discovery for a Scientific Defense / Lauri Traub

Dealing With Persistent Smartphone Forensic Challenges / Ronen Engler / Cellebrite

Preparing to Testify About Mobile Evidence in Court / Buddy Tidwell





The Ethics of Dealing with Experts / Marty Pinales & Scott Bresler

Preparing Your Jury for Science: Voir Dire and the New ABA Standards / Lisa Wayne

Export Controls: Military Products (ITAR) / Raytheon Company

OSX User, System, and Local Domain File Analysis / Sarah Edwards / SANS Institute

iOS Forensics / Domenica Crognale / SANS Institute

Registry and USB Device Analysis

Windows Artifact and Log File Analysis

Advanced Skip Tracing Tools

Audio / Video Enhancement Workshop

Filesystem Journaling Forensics

The Design and Characteristics of Location Reporting Technologies

Convergence Forensics: Leveraging Multiple Skills to Analyze Evidence

Cloud Collections

Forensic Analysis of CCTV DVRs

Lessons Learned from Incident Response / Ernst & Young

US v. Roman Seleznev USSS Case Study / United States Secret Service - Electronic Crimes Task Force

Drone Forensics 101: Extracting & Examining Data from Drones

Pushing the cloud: Issues trending with Government Malware, location privacy, social media / Hanni Fakhoury

Recent Developments & Emerging Issues in Electronic Search and Seizure / Honorable Bronson James

Challenges and Changes in the User of Digital Evidence / Cellebrite

Access Digital Evidence Faster using Emergency Download Mode / Cellebrite

25 Steps to Launch Drones in Public Safety

An Introduction to Part 107 and Preparing for the Exam

Cryptocurrency Investigations / United States Secret Service - Electronic Crimes Task Force

Recent Developments in Electronic Evidence Investigations / United States Secret Service - Electronic Crimes Task Force

PFIC Conference IoT Forensics Panel

Using Paraben's E3 with Python, Chet Hosmer, Python Forensics

Map All The Things: Geolocation for Mobile-Forensics Practitioners, Kim Thomson, H-11

IoT Data on Integrating Hubs, Amber Schroader, Paraben

Automating Packet Analysis with Python, Joe McManus, University of Colorado at Boulder

Accessing Malicious USB Devices, James Habben, Verizon VTRAC

Critical change to Mac & iOS devices that investigators need to know, Derrick Donnelly, BlackBag Technologies

IoT Wireless Network Forensics, Michael Raggo, 802 Secure Inc.

Damaged Device Forensics, David Rathbone, VTO Labs

The Business Challenges in Digital Forensics, Andy Cobb, One Source Discovery

Apple File System Imagin & Analysis Considerations for Forensic Examiners, Sumuri LLC

New Threats from Above: A look at How Unmanned Aerial Vehicles (UAV) are being utilized in Crimes, Cellebrite

Traces from the Cloud: Forensic Analysis of Cloud Storage, Digital Intelligence

Drone Data Extraction, Decoding, Analysis. What happens when a UAV is involved in your Investigation, Oxygen

Wi-Fi Reconnaissance and Investigations: How to be a Superhero with X-ray vision, Duff & Phelps

Mobile Acquisition Uncovered: The Past, Present, and Future of Mobile Device Investigations, Magnet Forensics

"Shh... Alexa is Listening" A security look at Voice-Based Assistants, VATG Inc.

Acquiring Data of the Internet of Things, VTO Labs

Carpenter vs. USA: Impacts to Historical Call Detail Records, Honorable Mark J. McGinnis

Myths and Realities of Cell Site Coverage, Hawk Analytic

Call Detail Records: Best Practices for Legal Requests

Berla iVe Live Community Hangout (December 2019)

Gas Pump Skimming: Anatomy of the Scheme

Berla iVe Live Community Hangout (January 2020)

National White Collar Crime Center: Gas Pump Skimming

National White Collar Crime Center: What Might Your Forensic Acquisitions Be Hiding?

Berla iVe Live Community Hangout (February 2020)

National White Collar Crime Center: Checkm8 & CheckRa1n: New Tools for iOS Extractions

Collection, Preservation, and Analysis of Digital Video Evidence

Tips and Tricks with Blacklight 2019R3

Cloud data methods for capture

macOS Forensic Artifacts and Techniques that are Essential for Mac Investigatinos

New Data Types in eDiscovery & Forensics

A Forensic Look at Windows 10 Timeline Using SQL Queries to Exploit the Data

Fake or Genuine? Forensically Authenticating Emails

Macquisition Triage and Live Collection

Digital Evidence from Social Networking Sites & Smartphone Apps

Digital Video Evidence: The Quest for Accuracy and Competence

CCleaner – Is this tool the end of Forensic Investigations As We Know it?

Investigating Fake Digital Photos

Berla iVe Live Community Hangout (March 2020)





National White Collar Crime Center: Legal and Investigative Implications of Emojis

BlackBag Technologies: "Ask the Experts: A Deep Dive into Keychain and Spotlight Artifacts"

Berla iVe Vehicle Forensics Essentials Series: System Identification

National White Collar Crime Center: Surviving and Thriving in the Court Room

Berla iVe Vehicle Forensics Essentials Series: Acquisition Overview

Berla iVe Vehicle Forensics Essentials Series: Analysis Overview

Hawk Analytics: Tower Dumps: 3 Analysis Methods to Add Value to your Case

Berla iVe Vehicle Forensics Essentials Series: Analysis Workflows

Berla iVe Live Community Hangout (April 2020)

Hawk Analytics: Carrier Breakdown: Sprint

Berla iVe Vehicle Forensics Essentials Series: Analysis of Event Data

Berla iVe Vehicle Forensics Essentials Series: Understanding Vehicle Networks

Berla iVe Live Community Hangout (May 2020)

Berla iVe Live Community Hangout (June 2020)

Hawk Analytics: Carrier Breakdown: Verizon

Calculating Accurate Timing from Video

Conducting a Video-Centric Investigation

DVR Evidence Recovery - The Good, the Gad, the Ugly

Legal Issues and Trends Related to Video Admissibility

More than Meets the Eye

Digital Evidence in Criminal Cases before the U.S. Courts of Appeal: Trends and Issues for Consideration

Physical Acquisition and Analysis of T2 Protected Macs

What Digital Breadcrumbs Are You Broadcasting

Hawk Analytics: Carrier Breakdown: T-Mobile

FBI: Cyber Threats: Not If, But When

NACDL: When the Government Uses Social Media to Prosecute Your Client

US Secret Service Cyber Fraud Task Force: Western Regional Quarterly Meeting: Aug 2020

Berla iVe Live Community Hangout (August 2020)

Hawk Analytics: Carrier Breakdown: AT&T

SANS: How to Correctly Interpret Evidence from Smartphone Data

Berla iVe Release Webinar (September 2020)

Berla iVe Live Community Hangout (September 2020)

Exploring New Features with BlackLight 10.2

Berla iVe v3.1 Release Webinar

Modeling and Simulation of 5G Antenna System Innovations

NW3C Spotlight – Forensic Goldmine in iOS and macOS

Hawk Analytics: Best Practices for Call Detail Record Testimony

Ensure 5G Systems Integrity by Using Multiphysics Analysis of Chips, Packages and Systems

Cellebrite: I Beg to DFIR - If you can't extract it, capture it

More than a Makeover: MacQuisition is now Digital Collector

Berla iVe Live Community Hangout (December 2020)

Linux Forensics and Why It's Important

Hemisphere & Stingray Devices

Forensics in Peer-to-Peer Sharing and Associated Litigation Challenges

GPS & Cellphones

Cell Towers: The Science & The Law

A Lawyer's Guide To Understanding Mobile Forensics

Body-Worn & Squad Car Cameras: Attacking the Tech and Use in Motions to Suppress

Practical and Tactical Tips for Using Technology to Improve Your Cross-Examination

Cross-Examination of the State's Expert in GPS Cases

Berla iVe Live Community Hangout (January 2021)

NW3C Webinar: Future of Preserving Digital Forensics

Berla iVe Live Community Hangout (February 2021)

Berla iVe Live Community Hangout (March 2021)

Video Investigation Units - How the Media is Leveraging Open Source Intelligence to Conduct Forensic Video Examinations

Civilian Oversight: The Influence of Video on Public Perception

Video Examination and Admissibility in the Courtroom – Are you an Expert?

Fusion of 3D Technologies and Imagery

Advancements in Technology for Calculating Speeds

From Expert to Expert Witness – A Defense Attorney's Perspective

Defending Against Recent Challenges to Video Evidence

Fast Forward: Emerging Trends in Video Evidence

The Importance of Using the Correct Cell Site List

How Forensic Analysts Depart from Science

2021 Video Evidence Training Symposium Hands-On Workshop





Berla iVe Live Community Hangout (May 2021)

United States Secret Service - San Francisco Field Office Cyber Fraud Task Force (SF - CFTF)

Advanced Persistent Threats: Lessons Learned from the SolarWinds and Microsoft Exchange Server Cyber Incidents

USSS-CFTF - Spies, Soldiers and Hackers - National Security Threats to the United States

USSS-CFTF - Defending Our Environment from Advanced Persistent Threat Actors

USSS-CFTF - Ransomware Investigations and Actionable Intelligence

MW3C: Future of Preserving Digital Evidence

Myths and Realities of Cell Site Coverage Areas (2021)

MW3C Webinar: SQL Survival Series: Part II

Ransomware - Do You Pay It Or Not? - Experts debate the costs and ethics surrounding ransomware payments

Berla iVe Live Community Hangout (June 2021)

NW3C Webinar: Gain a Deeper Understanding of Digital Video Files

MW3C Webinar: Human Trafficking 101: A Primer for Prosecutors and Investigators

Berla iVe Live Community Hangout (July 2021)

Berla iVe Live Community Hangout (Sept 2021)

IEEE Vehicle-to-Everything (V2X) Communications for Next Generation Vehicles

In-Depth with the VFR Lightboard

Cellebrite: How to Utilize Advanced Collection and Remote Collection Capabilities to Enhance Investigations

Berla iVe Live Community Hangout (Oct 2021)

Electronic Information in Criminal Investigations and Proceedings: Constitutional Implications

Forensic Analysis of Data Stored in SQLite

High Tech Search Warrants in California (PC 1546/CalECPA)

Uber Resources for Law Enforcement Investigations

The going dark problem: finding the light using hidden app data

Digital Evidence from Social Networking Sites & Smartphone Apps

Everything you wanted to know about physical acquisition but were never told

Was it Actually There? Location Education on Mobile Devices

The Fundamentals of Cryptocurrency

The Investigative Benefits of NCFTA

Berla iVe Live Community Hangout (Nov 2021)

Cellebrite Locations, Was it Really There Webinar

Berla iVe Live Community Hangout (Dec 2021)

Snapchat, TextNow and VOIPs... Oh My!

Digital License Plates are Here and On the Road

Top 5 New Mobile Investigation Features For Enterprises

How Filters Affect the Interpretation of Video

The Impact of Allowing Officers to View Video Prior to Providing a Statement

How Video Tells a Story

Security Video: Maintaining Chain of Custody

The Evolution of Court Acceptance of Video

Speed and Motion - Interpreting Use of Force from Video Images

Creating a Successful Cellular Analysis Presentation

Berla iVe Live Community Hangout (Feb 2022)

Berla iVe Live Community Hangout (May 2022)

Cellebrite Life Has No Ctrl+Alt+Del (June 2022)

Magnet Webinar: Log Analysis

Medex User Intro Session

Berla iVe Live Community Hangout (June 2022)

Cellebrite Life Has No Ctrl+Alt+Del (July 2022)

Challenging Geofence Reverse Location Data Post-Carpenter

What Happens when Video is Misinterpreted?

Cellebrite: UFED Cloud Part II: Private Extractions

Cellebrite: Modern Data Collections for Litigation Technology

Berla iVe Live Community Hangout (October 2022)

Cellebrite Life Has No Ctrl+Alt+Del (November 2022)

Introducing Axon Investigate (Video Software) Cellebrite Life Has No Ctrl+Alt+Del (January 2023)

Cyber Threat Intelligence Summit Solutions Track 2023

Cellebrite Life Has No Ctrl+Alt+Del (February 2023)

SANS: A Leader's Guide to Security Operations: Improve Productivity with Threat Intelligence and Automation

Berla iVe Live Community Hangout (February 2023)

Practical Approaches to Authenticity Analysis Using Medex





Ernest J. Koeberlein IncidentResponse.us: A Digital Forensic Laboratory of Excellence Masters: Criminal Justice / Digital Forensics 1205 Los Robles Pl, Pomona, CA 91768 EnCE, CCE, CISSP, CHFI, CEH, CBE, GCFE, iVe, GPS, CCLO/CCPA (888) 330-5550

Expertise Details

Video Media Examiner

Perform complex authentication and source identification examinations of video media. Authentication is the process of substantiating that the video information in question is a complete and accurate representation of what it purports to be. A variety of techniques are used in conjunction, according to best practices, that allow the examiner to draw a scientific conclusion. Authenticity examinations are often based on allegations of alteration, equipment misuse, chain of custody deficiencies and illegal monitoring techniques.

Call Detail Records / Cell Site Analysis

Call Detail Record analysis in the criminal justice system provide a wealth of information that can help to identify suspects, in that they can reveal details as to an individual's relationships with associates, communication and behavior patterns, and even location data that can establish the approximate whereabouts of an individual (or at least their phone) during the beginning and possibly the end of the call.

Cell Phone / Mobile Device Forensics

Cell phone and mobile device forensics is a branch of digital forensics relating to recovery of digital evidence or data from a mobile device under forensically sound conditions. Mobile devices can be used to save several types of personal information such as contacts, photos, notes, SMS and MMS messages, etc. Smartphones may additionally contain video, email, web browsing information, location information, and social networking messages and contacts. As mobile device technology advances, the amount and types of data that can be found on a mobile device is constantly increasing. Evidence that can be potentially recovered from a mobile phone may come from several different sources, including handset memory, SIM card, and attached memory cards such as SD cards.

Computer Forensics

Computer forensics is a branch of forensic science which deals with the application of investigative analysis techniques oncomputers in order to retrieve and preserve evidence in a way that is legally admissible. This means that a major aspect of the science of computer forensics lies in the ability of the forensics expert to present findings in a way that is acceptable and usable by a court of law. The goal of computer forensics is the performance of a structured investigation on a computing device to find out either what happened or who was responsible for what happened, while at the same time maintaining a properly documented chain of evidence in a formal report.

Google Location Services Mapping

Android tablets and mobile phones have the ability to report the device's location to online services, usually with high accuracy if the device has GPS capability turned on. Knowing your location, and tracking your location history is very important to many android applications. For example, a weather widget on your home screen would be more useful if it displayed the weather in your current location, rather than in a pre-set home location. Google Location History, if turned on, tracks the device's location, sometimes at a minute by minute rate, with the best location measurements made from either GPS, known wireless access points, or cell towers in the vicinity. This data is then stored indefinitely on Google servers, and can be downloaded and analyzed.

Vehicle Infotainment / Navigation Systems

With the proper training, certain digital forensic tools and techniques can be used to perform logical and/or physical acquisitions and analysis of a vehicle's infotainment and telematics system. We can acquire user data from vehicles, and analyze the vast amount of data such as recent destinations, favorite locations, call logs, contact lists, SMS messages, etc., and even the navigation history of everywhere the vehicle has been (depending upon make and model of vehicle). Many systems record events such as when and where a vehicle's lights are turned on, which doors are opened and closed at specific locations, and even where the vehicle is when Bluetooth devices connect. The tools involved interface directly with vehicle systems via specially designed hardware.

GPS Mapping

➤ GPS is defined as "A system of radio-emitting and -receiving satellites used for determining positions on the earth. The orbiting satellites transmit signals that allow a GPS receiver anywhere on earth to calculate its own location through trilateration. GPS is incorporated in many of our daily objects and serve many purposes in our daily navigation. Drivers use GPS when navigating streets, pedestrians use GPS on mobile devices to navigate walking paths, and GPS devices are being used to monitor human and animal movement. With this data, we can create customizable maps and profiles from GPS data from various devices. Input can be in the form of driving routes, street addresses, or simple GPS coordinates from varying sources such as ankle bracelets, GPS tracking devices, vehicle navigation systems, EXIF data embedded in camera images, social media location metadata, cell phone location data, etc. When used by skilled professionals, GPS provides mapping data of the highest potential accuracy.

Surveillance Video DVR Preservation & Recovery

Surveillance Video DVR Preservation & Recoveryis a common misconception that once a digital DVR system as "rolled over", old data cannot be recovered. Even when the security DVR says the data you are looking for isn't there, it very well could be. It is true though that traditional computer forensic techniques can fall short with CCTV DVR systems due to the proprietary filesystems and data used. The processes that we use for acquiring video and metadata from CCTV DVRs is a forensically sound manner in the field or in the lab. We can bypass DVR passwords and archaic menus to quickly extract evidence directly from the DVR hard drive. Even if the DVR was toasted in a fire, or destroyed by a subject, if the hard drive works, our process can recover the data. Using traditional methods to export video can take days, if not weeks on some systems. By bypassing the operating system, our process allows us to accomplish the same (and potentially much more) in a matter of hours, not days.





Certifications Details

| itions details | | |
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| | 3CIA | 2022 |
| Available for professionals in both law enforcement and the private sector, this | | |
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| | NACNAE | 2022 |
| | MCME | 2022 |
| | | |
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| | CVSE | 2021 - recert |
| This comprehensive certification requires demonstrated proficiency in the analysis and | OVOL | 2021 - 100011 |
| | | |
| | CVST | 2021 - recert |
| | | |
| utilizing the iVe Hardware Kit. | | |
| ed Certified Telecommunications Subject Matter Expert | CTSME | 2020 |
| The TCO Certified Telecommunications Subject Matter Expert (CTSME) is the most | | |
| comprehensive telecom, datacom, networking, wireless, VoIP and SIP training and | | |
| certification available anywhere. | | |
| | | |
| CTSME encompasses four TCO Certifications: CTA, CVA, CWA and CTNS. | | |
| CTA 16 courses covering all major tenies in talescen, datacom and naturally a form | | |
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| | CVA | 2020 |
| CVA covers all aspects of Voice over IP, including all the different ways VoIP is | | |
| | | |
| | | |
| network quality with MPLS, Service Level Agreements and Class of Service. | | |
| A TCO Contified VaID Analyst understands the fundamentals, the technologies the | | |
| | | |
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| | | |
| von Systems and practices. | | |
| Certified Cyber Crime Investigator | 3CI | 2020 |
| | | |
| certification attests to the holder's knowledge and demonstrated competence in the | | |
| detection, response to, and investigation of cyber-crimes and crimes facilitated by | | |
| online communication, tools, evidence or modular criminality. | | |
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| Certified Cyber Crime Examiner | 3CE | 2019 |
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| | | 2015,2018,2019 |
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| | | |
| corporate investigations agencies. | | |
| nd Wirologe Analyst | CWA | 2019 |
| u mieless Allaiysi | CVVA | 2019 |
| | Certified Cyber Crime Intelligence Analyst Available for professionals in both law enforcement and the private sector, this certification attests to the holder's knowledge and demonstrated competence to analyze products and processes across the intelligence cycle and assess the capabilities, intentions, and activities – technical and otherwise – of potential threats in the cyber domain. Certified Media Examiner The MCME demonstrates that an examiner have achieved proficiency in the use of Medex to perform complex authentication and source identification examinations of video media. d Vehicle System Forensic Examiner This comprehensive certification requires demonstrated proficiency in the analysis and understanding of vehicle data utilizing the IVe Software. d Vehicle System Forensic Technician This certification requires demonstrated proficiency in the acquisition of vehicle data utilizing the IVe Hardware Kit. d Certified Telecommunications Subject Matter Expert The TCO Certified Telecommunications Subject Matter Expert (CTSME) is the most comprehensive telecom, datacom, networking, wireless, VoIP and SIP training and certification available anywhere. CTSME encompasses four TCO Certifications: CTA, CVA, CWA and CTNS. - CTA, 16 courses covering all major topics in telecom, datacom and networking from POTS to MPLS plus Security. - CVA, 3 courses adding depth on Voice over IP from packetization to SIP trunking. - CVA, 3 courses adding depth on wireless including spectrum, propagation, cellular and mobility, Bluetooth and WiFi. - The internationally-recognized CTNS certification rounds out the package. d VoIP Analyst CVA covers all aspects of Voice over IP, including all the different ways VoIP is implemented, how calls are set up with softswitches and SIP, how voice is packetized and the factors affecting sound quality, connecting to carriers and SIP trunking, and network quality with MPLS, Service Level Agreements and Class of Service. A TCO Certified VoIP Analyst understands the fundamentals, | Certified Cyber Crime Intelligence Analyst Available for professionals in both law enforcement and the private sector, this certification attests to the holder's knowledge and demonstrated competence to analyze products and processes across the intelligence cycle and assess the capabilities, intentions, and activities – technical and otherwise – of potential threats in the cyber domain. Certified Media Examiner The MCME demonstrates that an examiner have achieved proficiency in the use of wide media. MCME This Comprehensive certification requires demonstrated proficiency in the analysis and understanding of vehicle data utilizing the IVe Software. This comprehensive certification requires demonstrated proficiency in the analysis and understanding of vehicle data utilizing the IVe Software. This corridation requires demonstrated proficiency in the acquisition of vehicle data utilizing the IVe Hardware Technician This certification requires demonstrated proficiency in the acquisition of vehicle data utilizing the IVe Hardware Rtl. de Certified Telecommunications Subject Matter Expert The TCO Certified Telecommunications Subject Matter Expert (CTSME) is the most comprehensive telecom, datacom, networking, wireless, VoIP and SIP training and certification available anywhere. CTSME encompasses four TCO Certifications: CTA, CVA, CWA and CTNS. - CTA, 16 courses covering all major topics in telecom, datacom and networking from POT3 to MPLS plus Security. - CVA, 6 courses providing depth on Voice over IP from packetization to SIP trunking. - CVA, 16 courses of the Course of the Co |





| | A | The CWA certification was developed in partnership with the Telecommunications Certification Organization. TCO Certified Wireless Analyst Certification covers the core technical knowledge needed by those in the wireless business today. A CWA is knowledgeable of the full range of wireless technologies including radio and spectrum fundamentals, mobile communications concepts and network technologies up to 4G LTE, as well as WiFi and other fixed wireless. | | |
|----|----------------------------------|--|------|-----------|
| Ce | ertifie | d Telecommunications Network Specialist | CTNS | 2019 |
| | > | The CTNS certification was developed in partnership with the Telecommunications Certification Organization. It provides a solid foundation of structured knowledge spanning telecom, datacom and networking from traditional telephony through cellular to IP and MPLS networking, understanding the fundamentals, technologies, jargon and buzzwords, and most importantly, the underlying ideas and how it all fits together. | | |
| Ce | ellebr | ite Certified Physical Analyst (recertification) | CCPA | 2014,2019 |
| | > | The Cellebrite Certified Physical Analyst (CCPA) course an advanced level certification which builds on the knowledge and practical skills needed in using UFED Physical Analyzer software to conduct advanced analysis on mobile devices, including advanced search and analysis techniques to verify and validate findings. | | |
| Ce | ellebr | ite Certified Operator (recertification) | CCO | 2014,2019 |
| | > | The Cellebrite Certified Operator (CCO) course is an intermediate level certification program which builds on the concepts from the CMFF course. This course is designed for those participants tasked with extracting data in a forensically sound manner using UFED Touch or UFED 4PC. | | |
| Ce | ellebr | ite Mobile Forensics Fundamentals (recertification) | CMFF | 2019 |
| | A | The CMFF curriculum provides attendees with compulsory digital forensics core knowledge (fundamentals) including: mobile device communication networks, explorations of Android and iOS file systems, extraction methodologies, memory (NAND) functions, and the proper handling of digital evidence for use in administrative, civil, or criminal actions. | | |
| F | FAA Part 107 Licensed sUAS Pilot | | | 2018 |
| N۱ | N3C | Certified Cyber Crime Examiner | CCCE | 2018 |
| | > | Available for professionals in both law enforcement and the private sector, this certification attests to the holder's knowledge of proper digital forensic techniques and best practices for working with digital evidence. Holders of this certification have demonstrated their knowledge of the identification and proper handling of digital evidence; types of digital hardware technologies; common file systems; best practices in forensic imaging; documenting and reporting; and legal considerations. | | |
| Ce | ellebr | ite Drone Data Analysis | CDDA | 2018 |
| | > | An advanced level program designed to teach how to recover, analyze and generate reports based on data obtained from unmanned aircraft systems (UAS), also known as drones. Best practices in disassembling a drone to acquire flight data embedded within the device. In addition to the embedded flight data, how to use a UFED Touch2 or UFED 4PC to create forensic images of associated storage media containing photo and video files recorded by onboard or attached cameras. Once the data is acquired, how to analyze the data and to correlate data found in smartphone drone applications with flight data recovered from the device. Overall the certification proves knowledge in Drone Awareness, Legal Guidelines and Terms, sUAS Components, sUAS Extractions, File System Artifacts, and sUAS Application Data. | | |
| D١ | /R E | caminer Certified User | | 2017,2018 |
| | A | The DVR Examiner User Certification certifies its graduates on how to use DVR Examiner software for the forensic recovery of DVR data and the underlying concepts behind how DVR Examiner works. The certification training involves lecture portions, followed by hands on examples of the concepts presented in the lectures. Only upon successful completion of a written exam and practical tests, will the student be certified. | | |
| Ve | hicle | Forensics Certification | iVe | 2014,2018 |
| | > | The Vehicle Forensics & iVe Certification provides that a certified investigator has the necessary skills to acquire and analyze data from OEM-installed infotainment and telematics systems, and prepare the investigator to qualify as an expert witness and testify in court. This certification shows that the investigator has a solid understanding of vehicle networks and how data is transmitted between the various electronic control units in a vehicle. The certification is focused on OEM-installed infotainment and | | |







| | telematics systems such as Microsoft SYNC™, MyFord Touch™, COMAND™, OnStar™, Uconnect™, ConnectedDrive™, Entune™, Mylink™, IntelliLink™ and CUE™. | | |
|--------------|--|------|----------------|
| X1 So | cial Discovery | | 2017,2018 |
| > | Social media evidence is highly relevant to most legal disputes and broadly discoverable, but some challenges lie in evidentiary authentication without best practices technology and processes which X1 helps provide. | | 2011,22010 |
| GIAC | Certified Forensic Examiner | GCFE | 2017 |
| > | The GCFE certifies that candidates have the knowledge, skills, and ability to conduct typical incident investigations including e-Discovery, forensic analysis and reporting, evidence acquisition, browser forensics and tracing user and application activities on Windows systems. | | |
| Certifi | ed BlackLight Examiner (Macintosh Forensics) | CBE | 2014 |
| > | The Certified BlackLight Examiner designation is given to students who can pass a BlackLight-specific proficiency test after completion of the BlackLight Tool Training course. | | |
| Black | thorn / GPS Certification | GPS | 2014 |
| > | Blackthorn is the leading GPS forensics tool used by forensic examiners and investigators for acquiring, examining and analyzing data from aviation, maritime, portable automotive, and handheld GPS devices. Certification holders have shown a comprehensive understanding of how to use Blackthorn and how the Global Positioning System works. The certification includes a practical exercise in which the investigator will be required to apply the techniques of acquiring data from devices, conducting an analysis, and drafting a report. Investigators will have also taken a written exam to obtain Blackthorn Certification. | | |
| Mobile | Phone Seizure Certification | MPSC | 2013 |
| > | The Mobile Phone Seizure Certification Examination identifies those who have successfully passed the examination as proficient in the identification, collection and | | |
| | preservation of mobile devices. | | |
| Certifi | | | 2013 |
| | preservation of mobile devices. | СЕН | 2013 |
| | preservation of mobile devices. ed Cellebrite Advanced Smart Phone Forensic Investigator | СЕН | |
| EC-Cc | ed Cellebrite Advanced Smart Phone Forensic Investigator Funcil Certified Ethical Hacker A Certified Ethical Hacker is a skilled professional who understands and knows how to look for weaknesses and vulnerabilities in target systems and uses the same knowledge and tools as a malicious hacker, but in a lawful and legitimate manner to assess the security posture of a target system(s). The CEH credential certifies individuals in the specific network security discipline of Ethical Hacking from a vendorneutral perspective. The Certified Ethical Hacker (CEH) is an intermediate-level credential offered by the International Council of E-Commerce Consultants (EC-Council). It's a must-have for IT professionals pursuing careers in ethical hacking. CEH credential holders possess skills and knowledge on hacking practices in areas such as footprinting and reconnaissance, scanning networks, enumeration, system hacking, Trojans, worms and viruses, sniffers, denial-of-service attacks, social engineering, session hijacking, hacking web servers, wireless networks and web applications, SQL | СЕН | |
| EC-Co | ed Cellebrite Advanced Smart Phone Forensic Investigator Funcil Certified Ethical Hacker A Certified Ethical Hacker is a skilled professional who understands and knows how to look for weaknesses and vulnerabilities in target systems and uses the same knowledge and tools as a malicious hacker, but in a lawful and legitimate manner to assess the security posture of a target system(s). The CEH credential certifies individuals in the specific network security discipline of Ethical Hacking from a vendor-neutral perspective. The Certified Ethical Hacker (CEH) is an intermediate-level credential offered by the International Council of E-Commerce Consultants (EC-Council). It's a must-have for IT professionals pursuing careers in ethical hacking. CEH credential holders possess skills and knowledge on hacking practices in areas such as footprinting and reconnaissance, scanning networks, enumeration, system hacking, Trojans, worms and viruses, sniffers, denial-of-service attacks, social engineering, session hijacking, hacking web servers, wireless networks and web applications, SQL injection, cryptography, penetration testing, evading IDS, firewalls, and honeypots. | CEH | 2012 |
| EC-Co | ed Cellebrite Advanced Smart Phone Forensic Investigator Puncil Certified Ethical Hacker A Certified Ethical Hacker is a skilled professional who understands and knows how to look for weaknesses and vulnerabilities in target systems and uses the same knowledge and tools as a malicious hacker, but in a lawful and legitimate manner to assess the security posture of a target system(s). The CEH credential certifies individuals in the specific network security discipline of Ethical Hacking from a vendor-neutral perspective. The Certified Ethical Hacker (CEH) is an intermediate-level credential offered by the International Council of E-Commerce Consultants (EC-Council). It's a must-have for IT professionals pursuing careers in ethical hacking. CEH credential holders possess skills and knowledge on hacking practices in areas such as footprinting and reconnaissance, scanning networks, enumeration, system hacking, Trojans, worms and viruses, sniffers, denial-of-service attacks, social engineering, session hijacking, hacking web servers, wireless networks and web applications, SQL injection, cryptography, penetration testing, evading IDS, firewalls, and honeypots. | | 2012 |
| Certifi Comp | ed Cellebrite Advanced Smart Phone Forensic Investigator Nuncil Certified Ethical Hacker A Certified Ethical Hacker is a skilled professional who understands and knows how to look for weaknesses and vulnerabilities in target systems and uses the same knowledge and tools as a malicious hacker, but in a lawful and legitimate manner to assess the security posture of a target system(s). The CEH credential certifies individuals in the specific network security discipline of Ethical Hacking from a vendor-neutral perspective. The Certified Ethical Hacker (CEH) is an intermediate-level credential offered by the International Council of E-Commerce Consultants (EC-Council). It's a must-have for IT professionals pursuing careers in ethical hacking. CEH credential holders possess skills and knowledge on hacking practices in areas such as footprinting and reconnaissance, scanning networks, enumeration, system hacking, Trojans, worms and viruses, sniffers, denial-of-service attacks, social engineering, session hijacking, hacking web servers, wireless networks and web applications, SQL injection, cryptography, penetration testing, evading IDS, firewalls, and honeypots. ed Cellebrite Mobile Phone Forensic Investigator Uter Hacking Forensic Investigator Computer hacking forensic investigation is the process of detecting hacking attacks and properly extracting evidence to report the crime and conduct audits to prevent future attacks. The CHFI certification validate the candidate's skills to identify an intruder's footprints and to properly gather the necessary evidence to prosecute in the | | 2012 |
| Certifi Comp | ed Cellebrite Advanced Smart Phone Forensic Investigator Description Certified Ethical Hacker | CHFI | 2012 2012 2011 |







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| > | CompTIA Security+ is the certification globally trusted to validate foundational, vendor-neutral IT security knowledge and skills. As a benchmark for best practices in IT security, this certification covers the essential principles for network security and risk management. CompTIA Security+ meets the ISO 17024 standard and is approved by U.S. Department of Defense to fulfill Directive 8570.01-M requirements. | | |
|-------------|---|-------|------|
| Certifi | ed Information Systems Security Professional | CISSP | 2010 |
| > | The CISSP designation is a globally recognized, vendor-neutral standard for attesting to an IT security professional's technical skills and experience in implementing and managing a security program. The CISSP is a certification sought by IT professionals with job titles such as security auditor, security systems engineer, security architect and chief information security officer, among others. To become a CISSP, the candidate must pass a six-hour long exam, consisting of 250 questions in multiple choice and "advanced innovative" formats which tests the candidate's knowledge and understanding in eight domains drawn from the more extensive (ISC)2 Common Body of Knowledge: security and risk management, asset security, security engineering, communications and network security, identity and access management, security assessment and testing, security operations and software development security. Candidates are required to have a minimum of five years full-time experience in at least two of the eight domains. To maintain the CISSP certification, candidates are required to earn at least 40 continuing professional education credits each year. | | |
| Certifi | ed Computer Examiner | CCE | 2010 |
| > | The CCE certification is widely considered to be the most prestigious non-vendor specific forensic certification available. This certification is available to all examiners working publically or privately. The foundation of this certification maintains a fair, uncompromised process for certifying the competency of forensic computer examiners and sets high forensic and ethical standards for forensic computer examiners. | | |
| EnCas | e Certified Examiner | EnCE | 2009 |
| > | The EnCase® Certified Examiner(EnCE®) program certifies both public and private sector professionals in the use of Guidance Software's EnCase computer forensic software. EnCE certification acknowledges that professionals have mastered computer investigation methodology as well as the use of EnCase software during complex computer examinations. Recognized by both the law enforcement and corporate communities as a symbol of in-depth computer forensics knowledge, EnCE certification illustrates that an investigator is a skilled computer examiner. | | |

Professional Memberships, Organizations, & Task Forces Details

Los Angeles FBI Citizens' Academy Alumni Association

The Federal Bureau of Investigation recognizes the importance of forging strong alliances with local communities and maintaining collaborative relationships with community leaders. To accomplish this directive, the FBI developed and implemented the FBI Citizens Academy program. Delivered throughout the country, the FBI Citizens Academy program is an 10 week intensive, interactive class specifically designed to educate civilians about the inner working, roles and responsibilities of the FBI Agency, and interface how local communities and citizens play a key role in the Agency's successful operation.

Delivered in an an intimate classroom setting, select students cover a curriculum that includes counter terrorism, white collar crimes, organized crime, cyber crimes, civil rights and other FBI priorities. All classes are taught by the Special Agent in Charge (SAC), Assistant Special Agents in Charge (ASAC's), Supervisory Special Agents (SSA's), and Field Special Agents (SA's). Participants also partake in a live fire day at the range where they learn about firearms and weapons safety.

Each member of the FBI Los Angeles Citizens Academy Association is a graduate of the 10-week FBI Los Angeles Citizens Academy

Federal Bureau of Investigation Infragard

InfraGard is a partnership between the FBI and members of the private sector. The InfraGard program provides a vehicle for seamless public-private collaboration with government that expedites the timely exchange of information and promotes mutual learning opportunities relevant to the protection of Critical Infrastructure. With thousands of vetted members nationally, InfraGard's membership includes business executives, entrepreneurs, military and government officials, computer professionals, academia and state and local law enforcement; each dedicated to contributing industry specific insight and advancing national security.

United States Secret Service/Department of Homeland Security: Electronic Crime Task Force, Los Angeles

Computers and other electronic devices are now the facilitators of criminal activity or the target of such, compelling the involvement of the Secret Service in combating cybercrime. The perpetrators involved in the exploitation of such







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> technology range from traditional fraud artists to violent criminals - all of whom recognize new opportunities to expand and diversify their criminal portfolio.

To bring these perpetrators to justice, the Secret Service developed a new body, the Electronic Crimes Task Force (ECTF), to increase the resources, skills and vision by which state, local, and federal law enforcement agencies team with prosecutors, private industry and academia to fully maximize what each has to offer in an effort to combat criminal activity. The common purpose is the prevention, detection, mitigation, and aggressive investigation of attacks on the nation's financial and critical infrastructures.

International Association of Computer Investigative Specialists (IACIS)

The International Association of Computer Investigative Specialists - IACIS is an international volunteer non-profit corporation composed mostly of law enforcement professionals dedicated to education in the field of forensic computer science. IACIS members represent Federal, State, Local and International Law Enforcement professionals. IACIS members have been trained in the forensic science of seizing and processing computer systems. IACIS offers professional training in the seizure and processing computer systems. This training incorporates forensic methods for searching seized computers in accordance with the rules of evidence and laws of search and seizure. This includes evidence that has been hidden, concealed, encrypted, protected with passwords, software time-bombs, trojan horses. IACIS provides an opportunity to network with other law enforcement officers trained in computer forensics, to share and learn from other experiences, and develop a pool of expert assistance to draw upon. IACIS is accredited by The Forensic Specialties Accreditation Board ("FSAB") - an independent board established to accredit professional bodies that certify forensic scientists and other forensic specialties

International Association of Computer Investigative Specialists (IACIS) Research and Development Subcommittee

Current Member of the IACIS R&D subcommittee.

The Research and Development Subcommittee of the International Association of Computer Investigative Specialists will be a crucial support service for IACIS and the broader digital forensics community by being a comprehensive knowledge base for the field of digital forensics, through collating and verifying existing digital forensics knowledge, and conducting cutting edge, and relevant research, to advance digital forensics knowledge.

The Research and Development Subcommittee of the International Association of Computer Investigative Specialists supports IACIS in a number of manners. The first is through consolidating the digital forensics knowledge on an ongoing basis within the institution, so that our institutional knowledge is preserved and maintained for the benefit of our members. The second is by providing opportunities for digital forensics research that meets acceptable scientific standards for our members to grow the digital forensics knowledge base. The third is to leverage of our research capacity to develop actionable business intelligence for the IACIS leadership, to assist in the ongoing management of the organization.

International Society of Forensic Computer Examiners (ISFCE)

- The purpose of the ISFCE is to:
 - Professionalize and further the science of digital forensics
 - Provide a fair, vendor neutral, uncompromised process for certifying forensic computer examiners 0
 - 0 Set high forensic and ethical standards
 - Conduct research and development into new and emerging technologies and methods in the science of digital forensics

Institute of Electrical and Electronics Engineers (IEEE)

IEEE and its members inspire a global community to innovate for a better tomorrow through highly cited publications. conferences, technology standards, and professional and educational activities. IEEE is the trusted "voice" for engineering, computing, and technology information around the globe.

IEEE - Aerospace and Electronic Systems Society

Interests cover the organization, systems engineering, design, development, integration, and operation of complex systems for space, air, ocean, or ground environments. These systems include but are not limited to navigation, avionics, mobile electric power and electronics, radar, sonar, telemetry, military, law-enforcement, automatic test, simulators, and command and control.

IEEE - Antennas and Propagation Society

Interests include antenna analysis, design, development, measurement, and testing; radiation, propagation, and the interaction of electromagnetic waves with discrete and continuous media; and applications and systems pertinent to antennas, propagation, and sensing, such as applied optics, millimeter and sub-millimeter-wave techniques, antenna signal processing and control, medical applications, radio astronomy, and propagation and radiation aspects of terrestrial and space-based communication.

IEEE - Computer Society

The IEEE Computer Society is the world's leading membership organization dedicated to computer science and technology. Serving more than 60,000 members, the IEEE Computer Society is the trusted information, networking, and career-development source for a global community of technology leaders that includes researchers, educators, software engineers, IT professionals, employers, and students.







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IEEE - Vehicular Technology Society

The IEEE Vehicular Technology Society concerns itself with land, airborne and maritime mobile services; portable commercial and citizen's communications services; vehicular electrotechnology, equipment and systems of the automotive industry; traction power, signals, communications and control systems for mass transit and railroads.

IEEE - Standards Association (IEEE-SA)

Standards drive technological innovation, fuel growth of global markets, expand consumer choice, support interoperability and help protect the health and public safety of workers and the general public.

ASTM International: Committee E30 on Forensic Sciences

ASTM International, formerly known as American Society for Testing and Materials, is an international standards organization that develops and publishes voluntary consensus technical standards for a wide range of materials, products, systems, and services.

ASTM Committee E30 on Forensic Sciences was formed in 1970. The Committee has jurisdiction of 51 standards, published in the Annual Book of ASTM Standards, and has 10 subcommittees that maintain jurisdiction over these standards. The Committee Scope is the promotion of knowledge and development (test methods, guides, practices, classifications, and terminology) for, but not limited to, definitions, methods, and standard reference materials for the collection, preservation, scientific examination, preparation and reports relating to physical evidence for forensic purposes and the general practice of forensic science.

ASTM International: Subcommittee E30.11 - Interdisciplinary Forensic Science Standards

- The Interdisciplinary Forensic Science Standards subcommittee is responsible for standards such as:
 - E620-18 Standard Practice for Reporting Opinions of Scientific or Technical Experts
 - E678-07(2013) Standard Practice for Evaluation of Scientific or Technical Data 0
 - E860-07(2013)e2 Standard Practice for Examining And Preparing Items That May Become Involved In Criminal or Civil Litigation
 - 0 WK23009 Guide for Case Review of Forensic Examinations
 - WK40039 Guide for Forensic Science Training, Continuing Education, and Professional Development Programs

ASTM International: Subcommittee E30.12 - Digital and Multimedia Evidence

- The Digital and Multimedia Evidence subcommittee is responsible for standards such as:
 - E2678-09(2014) Standard Guide for Education and Training in Computer Forensics
 - E2763-10 Standard Practice for Computer Forensics 0
 - E2916-13 Standard Terminology for Digital and Multimedia Evidence Examination 0
 - 0 E3046-15 Standard Guide for Core Competencies for Mobile Phone Forensics
 - WK61709 Standard Practice for Data Retrieval from Digital CCTV System 0
 - WK63926 Repair and Recovery of Damaged Audio Media

International Information Systems Security Certification Consortium (ISC)²

(ISC)² is the World's Leading Cybersecurity and IT Security Professional Organization. The mission of the Consortium is to contribute to the health of the information landscape by offering gold-standard certifications while maintaining a body of critical knowledge, including principles and terms that help define global industry standards.

Espionage Research Institute International (ERII)

The mission of the Espionage Research Institute International is to educate and advance best practices in the counterespionage / counterintelligence & TSCM community through excellence, applied learning, and research that examines issues of strategic importance to the sector.

Association of Court Panel Investigators

Helping indigent defendants receive a fair trial and ensuring they get what they need and deserve for their defense.

California Attorneys for Criminal Justice (CACJ)

- CACJ is the country's largest statewide organization of criminal defense lawyers and allied professionals. The specific purposes of CACJ are:
 - to defend the rights of persons as guaranteed by the United States Constitution, the Constitution of the State of California and other applicable law;
 - to preserve due process and equal protection of the law for the benefit of all persons; to enhance the ability of its members to discharge their professional responsibilities through educational programs, publications and mutual assistance: and
 - to protect and foster the independence of the criminal defense lawyer and to improve the quality of the administration of criminal law.

National Defender Investigator Association (NDIA)

The National Defender Investigator Association (NDIA) is the only international organization to represent a constituency dedicated solely to the investigative arm of indigent defense

International Association of Cyber & Economic Crime Professionals (IACECP)







Frnest J. Koeberlein Masters: Criminal Justice / Digital Forensics EnCE, CCE, CISSP, CHFI, CEH, CBE, GCFE, iVe, GPS, CCLO/CCPA

> The IACECP strengthens its members' ability to combat cyber and economic crime through professional credentialing that engages innovative and robust learning platforms to certify participants in several specialized fields. Acquired skill sets are reinforced through the active exchange of ideas and resources among IACECP's international membership.

For four decades, the National White Collar Crime Center (NW3C)'s premier training and technical support has enabled all spectrums of law enforcement to prevent, investigate, and prosecute cyber and economic crimes. The IACECP's resources and solutions adhere to NW3C's established high standards of integrity and quality.

National Association of Criminal Defense Lawyers

The National Association of Criminal Defense Lawyers (NACDL) encourages, at all levels of federal, state and local government, a rational and humane criminal justice policy for America -- one that promotes fairness for all; due process for even the least among us who may be accused of wrongdoing; compassion for witnesses and victims of crime; and just punishment for the guilty.

Such a policy respects cherished civil rights and liberties that are fundamental to our democracy. Citizens have a right to expect privacy in their homes, vehicles, and communications; a right not to be deprived of their liberty or property without due process of law, and a right to consult counsel of their choice without it being used against them. America fought for and declared its independence to preserve these rights, and our Founding Fathers inscribed them into the Constitution.

The Association of Digital Forensics, Security, and Law (ADFSL)

The ADFSL focus on research and curriculum is of value to both academic and practitioner audiences. The primary audience includes those individuals who are interested in developing curriculum and teaching methods as well as conducting research related to the consideration of digital forensics, security and law.

The audience also includes practitioners who consider digital forensics to be a resource that needs to be understood, taught and developed. Such practitioners reside in a broad spectrum of functions, including information technology, security, government and law.

The mission of the ADFSL is to provide an avenue for academics and practitioners to share academic needs, experience and research in the areas of digital forensics, security and law and in particular the intersection of those areas. Two avenues that the association will focus on are a quarterly journal and an annual conference.

ΑΦΣ National Criminal Justice Honors Society

Alpha Phi Sigma recognizes academic excellence of Undergraduate and Graduate students of Criminal Justice, as well as Juris Doctorate students.

The goals of Alpha Phi Sigma are to honor and promote academic excellence, community service, educational leadership, and unity.

Alpha Phi Sigma is the only Criminal Justice Honor Society which is a certified member of the Association of College Honor Societies and affiliated with the Academy of Criminal Justice Sciences.

Association of Certified Fraud Examiners (ACFE)

The ACFE is the world's largest anti-fraud organization and premier provider of anti-fraud training and education. Together with more than 80,000 members, the ACFE is reducing business fraud worldwide and inspiring public confidence in the integrity and objectivity within the profession.

Criminal Courts Bar Association

The Criminal Courts Bar Association is a county wide organization of criminal defense lawyers in both public and private practice, law students, allied professionals, prosecutors, judges and private individuals. The goals of the Criminal Courts Bar Association are the protection of individual rights and liberties, improvement of the Criminal Justice System, enhancement of the Criminal Law Practitioners, and the continuing education of the Criminal Defense Bar.

International Crime Scene Investigators Association

The International Crime Scene Investigators Association was created to assist law enforcement personnel and others who are involved in the processing of crime scenes. The discipline of crime scene processing is such a unique field in forensic science and law enforcement that this discipline needed its own organization. Crime scene processing is a multidisciplinary function. Crime scene processors, must have a working knowledge of all the disciplines in forensic science and apply that knowledge to the documentation of the crime scene.

American Bar Association

The ABA provides law school accreditation, continuing legal education, information about the law, programs to assist lawyers and judges in their work, and initiatives to improve the legal system for the public. It "provides law school accreditation, continuing legal education, information about the law, programs to assist lawyers and judges in their work, and initiatives to improve the legal system for the public.

Los Angeles County Bar Association







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San Bernardino County Bar Association

Frnest J. Koeberlein

Armed Forces Communications & Electronic Association (AFCEA)

AFCEA is a professional association that connects innovative people, great ideas and vital solutions to advance global

This enables military, government, industry and academia to align technology and strategy to meet the needs of those who serve.

AFCEA provides a forum for military, government and industry communities to collaborate so that technology and strategy align with the needs of those who serve. Through its established worldwide network of individual members, chapters and member organizations across the globe, AFCEA has led the ethical exchange of information for nearly 70 years, with roots that trace back to the U.S. Civil War.

Law Enforcement and Emergency Services Video Association International, Inc. (LEVA)

Committed to provide advanced training and certification in the science of forensic video analysis. LEVA serves as a key resource providing opportunities for professional development through quality training and informational exchange.

Airborne Law Enforcement Association (ALEA)

To support, promote and advance the safe and effective utilization of aircraft by governmental agencies in support of public safety missions through training, networking, advocacy and educational programs.

Cellebrite Design Partner Program

The Design Partner Program is a virtual space to get access to the latest product pre-releases from Cellebrite and help us shape the solutions of tomorrow. In this community you will be able to provide input and share your ideas with Cellebrite.



