



Curriculum Vitae of Christian Mammarella, EnCE

Present Position

Senior Digital Forensic Examiner
ArcherHall, LLC
Denver, Colorado
M: (720) 670-2223 | O: (303) 268-5586
cmammarella@archerhall.com
Licensed Private Investigator, Texas #17819101

Previous Positions

Senior Forensic Analyst
Vestige Digital Investigations
Englewood, Colorado
April 2022 – June 2024

- Encase Certified Examiner who performed imaging and analysis of digital media and provides expert witness services including reports and testimony for a variety of clients across many industries.
- Examined computers, mobile devices and emails accounts.
- Administered CLEs on Electronically Stored Information and Cellular Tower Record locations.
- Analyzed media to determine if it was authentic or altered.

Senior Forensic Analyst
Cyopsis
Englewood, Colorado
December 2018 – April 2022

- Encase Certified Examiner who performed imaging and analysis of digital media and provides expert witness services including reports and testimony for a variety of clients across many industries.
- Examined computers, mobile devices and emails accounts.
- Created digital timelines of activity found on the devices.
- Analyzed the metadata within documents, to determine if modification took place.
- Examined cellular tower call detail records and testified in Federal court about his analysis.

Senior Consultant
B&V Pathway Forensics, LLC
Houston, Texas
June 2015 to November 2018

- Provide computer forensics and electronic discovery services including the acquisition, authentication and analysis of electronic evidence to clients across many industries.
- Provided expert testimony in Federal, military, state court civil and criminal jury trials.
- Examined computers, mobile devices and cellular tower records.
- Administered a CLE on Cellular Tower Record data.

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Experience

ArcherHall – Senior Digital Forensic Examiner

- Responsible for conducting forensic analysis on digital media as deemed appropriate by currently accepted standards.
- Converse with clientele and convey standards, procedures, and results of forensic analysis in an easy-to-understand manner.
- Test new programs and methodologies for adaptability in the forensic environment.
- Experience with cases in fraud, employment relations, intellectual property theft, and criminal matters.
- Experience with the acquisition and analysis of Windows and Macintosh computers and servers.
- Experience with the acquisition and analysis of other digital storage media, such as CDs/DVDs, flash drives, and SD cards.
- Experience with the acquisition and analysis of Android and iOS mobile devices, as well as standard cell phones.
- Expert in cell phone and cell phone tower forensics.

Police Detective | Police Officer

Boca Raton Police Services

Boca Raton, FL

June 2004 to August 2014

- Worked computer crimes for the State Attorney's Office in the Sexual Predator Enforcement Unit.
- Examined Computers for the U.S. Secret Service MECTF task force.
- Performed Computer Forensic Examinations for many Local and Federal agencies.
- Assigned to Computer, Economic and Property Crimes while in the Detective Bureau for 6 years.
- Active Member of Internet Crimes Against Children.
- Created new methods for extracting evidence from cell phones.
- Wrote and executed multiple Federal and State Search Warrants.
- Investigated crimes by interviewing people, gathering information and organizing the results.

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- Used knowledge of the Florida State Statues and civil process to assist and educate the public.
- Active member and Drill & Ceremonies Trainer of the Boca Raton Honor Guard.
- Worked as a Crisis Intervention Officer when dealing with subjects in emotional distress.
- December 2006 Officer of the Month, for using “street level” contacts to solve a crime.
- Provided training to other Officers

July 1994 to July 2011:

Military Police Officer / Automated Logistical Specialist, U.S. Army, Fort Bragg, NC / Fort Stewart GA

- 5 years of Active Duty at Fort Bragg and 1 year of Active Duty at Fort Stewart.
- Deployed to Iraq in 2008
- Investigated crimes that happened on and off the military post, involving service members.
- Active member of the Special Reaction Team and Bike Patrol.
- Worked in protective services and Presidential Security when the President visited the posts.
- Handles supply actions for over 300 Army units, each consisting in excess of 700 people.
- Accountable for \$1.1 Million of on hand supplies.
- Handled and fixed computer problems as a MP and Logistical Specialist.
- Received Army Commendation Medals for performances.
- Soldier of the Month, #1 out of 750 soldiers; runner-up for Soldier of the Year.

January 1999 to December 2003:

Assistant Manager / Loss Prevention, Office Depot, Palm Beach, FL

- Managed all areas of the store including, Computer sales and Business Machines.
- Handled the logistics of ordering and receiving supplies for the establishment.
- Supervised approximately 30 people and maintained their files.
- Worked as a computer trouble shooter when errors occurred and answers were needed.
- Investigated credit card and shoplifting crimes, in person or via computer.
- Operated equipment ranging from cash registers to computers.
- Repaired computer equipment on scene and instructed customers over the phone.

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Education

- Diploma from Atlantic Community High School in Delray Beach, Florida.
- Received 37 credits in General Education from Palm Beach Community College, Lake Worth, Florida.
- Certificate, 13-week Automated Logistical Specialist Course from Fort Lee, Virginia.
- Certificate, 2 Week TACCS/SAMS computer course from Fort Lee, Virginia.
- US Army Airborne School, Fort Benning, Georgia.
- Drivers Training, HAZMAT, Aircraft Load Master and Management Course from Fort Bragg, NC.
- Military Police Course, 8 weeks, Fort Leonard Wood, MO.
- Special Reaction Team Training 80 hours, Fort Stewart Georgia.
- Certificate, 700 hours Certificate of Compliance Law Enforcement Officer, Florida Department of Law Enforcement.
- Certificate, 40 hours Investigative Interviews Broward Community College, Florida.
- Certificate, Crisis Intervention Team Training, South County Mental Health Center, Florida.
- Certificate, 192 hours Basic Computer Evidence Recovery Training, US Secret Service, Alabama.
- Certificate, 64 hours Advanced Forensics Training, US Secret Service, Alabama.
- Certificate, 16 hours Computer Crimes Legal Issues, Broward Community College, Florida.
- Certificate, 40 hours Conducting Internet Investigations, Broward Community College, Florida.
- Certificate, 24 hours CAC/Sex Crimes Investigations, Palm Beach Sheriff's Office, Florida.
- Certificate, Certified Cellebrite UFED Mobile Device Examiner Course, Washington D.C.
- Certificate, Certified Cellebrite UFED Physical Examiner Course, Washington D.C.
- Certificate, 24 hours Search and Seizure in the Electronic Age, Broward Community College, Florida
- Certificate, 64 hours Encase v7 Computer Forensics I and II, Guidance Software Online
- Certificate, 32 hours Encase v7 Advanced Computer Forensics, Guidance Software Online
- 3 Day course, Encase v7 EnCE Prep Course, Guidance Software Online
- Certification, (EnCE) Encase Certified Examiner 15-0317-7548

Certifications

Encase Certified Examiner (EnCE)
Opentext™

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Affiliations

Active Member of Internet Crimes Against Children
Miami Electronic Crimes Task Force
Palm Beach County Sexual Predator Enforcement Unit
Grid Cop

Presentations

CLE Case Study (Beaumont, TX) 2017

- Spoke about how I used Cell Tower records and the data within the cellphone, to prove two clients were not involved in a homicide. Provided a possible new suspect, with the collected cell tower data collected.

P.I. Continuing Education Event (Houston, TX) 2018

- Spoke about the myths and reality of cellphone data and extractions. Explained how cell tower data can be useful in an investigation. Provided examples of how applications on a cellular device, can record your locations. The event was for the Texas Association of Licensed Investigators.

CLE Case Study (Centennial, CO) 2019

- Spoke about using Cell Tower records and the data within the cellphone, to prove two clients were not involved with multiple burglaries. Provided location data and communication logs, showing the clients were not involved with the burglaries. The event was with the Arapahoe County Bar Association.

Educational Bootcamp (Denver, CO) 2022, 2023

- Spoke to high school students and their parents about the dangers of social media, cyber-bullying and the use of electronic devices. Provided examples of how social media apps track your locations. Spoke about sexting and what can be recovered from a cellphone. The event was held at the office of Foster Graham Milstein & Calisher, LLP.

CLE Case Study (Thornton, CO) 2023

- Explained how cell tower data can be useful in an investigation. Provided examples of how cellular applications record your location. Spoke about using the data and how to collect it. The event was for the Professional Private Investigators Association of Colorado.

CLE Case Study (Centennial, CO) 2023

- Spoke about Electronically Stored Information (ESI), evidence of spoliation and using location data. Provided examples of social media ESI and how to collect it. Spoke about a case involving location data and how some of communication was deleted, from the cellphone. The event was with the Arapahoe County Bar Association.

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Expert Witness Testimony & Case Experience

State of Ohio v Deshawn Coleman, Eric Farrey (Case No. CR-21-08-2734) Hearing, Court of Common Pleas, Summit County, Ohio, December 2023

- Testified as an expert in Open Source Intelligence.
- Testified about preserving evidence in civil and criminal investigations.
- Testified about the need to validate information, found in the Deep or Dark Web.

Jenne M Esch v Mark Precious and CarbonHelix et al (Case No. 20CV30030) Hearing, District Court, Douglas County, Colorado, May 2023

- Testified about remote wiping of a mobile device.
- Testified about the restore process of an iPhone backup stored in the iCloud.
- Testified about the metadata within the Apple iOS Property List (plist) files.

State of Colorado v Caleb May (Case No. 21CR1027) Jury Trial District Court, Arapahoe County, State of Colorado, September 2022

- Testified about the examination of a cellphone.
- Testified about the Keepsafe app and the effects of the encryption.
- Testified about the metadata of videos and thumbnails.

State of Florida v Corey B. Johnson (Case No. 18CF002758) Jury Trial and Deposition, 15th Judicial Circuit Palm Beach County Florida, September 2021, October 2021

- Testified about the examination of the cellphone.
- Testified about the Telegram app communication, prior to the homicide.
- Testified about violent videos and photos located on the cellphone.

State of Colorado v Braedon Bellamy (Case No. 20CR1451) Jury Trial, District Court, Boulder County, State of Colorado, August 2021

- Testified about the metadata, showing editing of videos on a cellphone.
- Testified about the last modified dates of videos on a cellphone.
- Testified about the deleted text messages and the SMS storage database.

State of Colorado v Aidan Atkinson (Case No. 19JD309) Jury Trial, District Court, Boulder County, State of Colorado, April 2021

- Testified about the metadata within pictures and videos.
- Testified about the creation dates and validity of the media.
- Testified about the Cellebrite software extractions.

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State of Ohio v Chinedu Nsidinanya (Case No. 15 CRB 2207Y) Jury Trial, Youngstown Municipal Court Mahoning County, Ohio, January 2017

- Testified about the location of a cellphone based on the cell tower connections.

U.S. v Joel Vargas, Angelica Vargas (Case No. 1:18-CR-00007) Jury Trial, U.S. District Court EDTX, Beaumont Division, March 2019

- Testified about the cellular provider, Call Detail Records and tower locations.
- Testified about the communication between the mobile devices and cellular towers.
- Testified about the validation of GPS locations within the provided reports.

U.S. v Syed R Mohiuddin (Case No. 15-34752-H1) U.S. Bankruptcy Court SDTX, Houston Division, October 2018

- Testified about missing email and the devices connected to the Gmail account.
- Testified about the use of the Eraser software program, on the collected devices.
- Testified about the synced internet cloud and recovery email accounts.

State of Texas v Ali Awad Mahmoud Irsan (Case No. 146560901010-3) Jury Trial, 184th District Court, Harris County Texas, July 2018

- Testified about the cellular communication records and the extracted Text Messages from the cellphones.
- Testified about the logged GPS locations over 11 months, with video presentations.
- Testified about surveillance practices and Microsoft file metadata.

State of Texas v Sean Lavergne (Case No. 15-23725, 18-28631) Jury Trial, Jury Retrial, 252nd Judicial District Court of Jefferson County, Texas, February 2018 and May 2018

- Testified about the two cellphones and their cellular communications to each other.
- Testified about the Text Messaging, Chat Applications and Multimedia Messaging Service.
- Testified about the cellphone damage and what could have prevented the cellphone's 911 call.

U.S. v A1C Jacob D. Burns (Case No. 408-C-112AD1-33431170411750) Jury Trial, Goodfellow Air Force Base, October 2017

- Testified in an Airforce Court Martial about cellphone and computer forensics.
- Testified about the drug related internet searches and using encryption messaging software.

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Joseph Pressil v Jason A. Gibson, The Gibson Law Firm (Case No. 2013-51350) Deposition, 55th District Court Harris County, Texas, April 2017

- Testified about the metadata within a Microsoft Word Document.

Dora Alicia Williams v Robert Max Williams (Case No. 15-05-05360-CV) Trial, 418th Judicial District Court, Conroe Texas, May 2016

- Testified about cellphone and computer forensics.
- Testified about how an agreed forensic protocol would work and the distribution of information.

State of Florida v Jason Peritz (Case No. 2009-CF-009789 / 2011-CF-007149) Jury Trial and Depositions, 15th Judicial Circuit Palm Beach County Florida, April 2011, November 2012

- Testified about contraband located on his computers, transferred contraband and cellphone communications.

State of Florida v William Stewart (Case No. 2011-CF-009737) Depositions, 15th Judicial Circuit Palm Beach County Florida, March 2012

- Testified about contraband located on multiple computers, DVDs and external devices.
- Testified about the transmission of the contraband, through internet websites.

State of Florida v Brian Clancy (Case No. 2011-CF-010545) Depositions, 15th Judicial Circuit Palm Beach County Florida, August 2013

- Testified about the text messages, images and applications on the offender's iPhone.

U.S. v Gary Golberg (9:13-CR-80082-KAM) Depositions, Southern District of Florida, April 2013

- Testified about contraband images on his computer and the victim's cellphones.
- Testified about the dates and times they were created.

State of Florida v Curtis Leo Barber (2011-CF-011632) Jury Trial and Depositions, 15th Judicial Circuit Palm Beach County Florida, June 2013, July 2014

- Testified to the contraband found on the defendant's computer and iPod Touch.

State of Florida v Adolfo Espinoza (2011-CF-002912) Depositions, 15th Judicial Circuit Palm Beach County Florida, April 2013

- Testified to the contraband found on the defendant's computers and how it was transmitted.

State of Florida v Matthew Takahasi (2009-CF-008698) Depositions, 15th Judicial Circuit Palm Beach County Florida, February 2011

- Testified to the contraband found on defendant's computers and how it was transmitted.

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State of Florida v Kevin Gauthier (2011-CF-002415) Jury Trial and Depositions, 15th Judicial Circuit Palm Beach County Florida, January 2012, April 2013

- Testified about contraband located on his computers, transferred contraband and cellphone communications.

State of Florida v Mihai Arnautu (08023058CF10A) Jury Trial, 15th Judicial Circuit Palm Beach County Florida, December 2011

- Testified about the ATM skimmer diagrams found in the computer. Testified about the internet search history and the credit card numbers found in multiple files.
- Testified about the use of Bluetooth and how it was used with the ATM skimmer.
- Demonstrated how the devices worked by reconstructing the dismantled ATM skimming device, camera and keypad.