



MICHAEL EASTER

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PROFESSIONAL EXPERIENCE

Cell Site and Location Intelligence, LLC

2025 to Present

Owner

In February 2025, I started Cell Site and Location Intelligence (CSLI), LLC to continue to provide consulting, analysis, and expert testimony related to Call Detail Records, Timing Advance Records, Global Positioning System (GPS), Google Location History (GLH), Tower Dumps and Area Searches, Vehicle Telematics and Cellular Modules, along with other Location Intelligence Records.

Federal Bureau of Investigation

2004 – 2025

Special Agent (Retired)

I have over 20 years as an FBI Special Agent to include over a decade of experience as a National Asset with the FBI's Cellular Analysis Survey Team (C.A.ST.). I worked thousands of cases involving the analysis of mobile device location information to locate victims and subjects of kidnappings, homicides, robberies, other violent crimes, and national security matters. Over the course of my career, I designed and created the curriculum the FBI used to teach law enforcement partners the methodology for using mobile device location information to find the missing, the lost, and the hiding. Additionally, I consulted with local, state, and federal law enforcement partners on thousands of cases involving CSLI, GPS, GLH, and other location-based records. Further, I have testified as an expert witness in over 200 criminal cases and taught expert witness testimony for over a decade.

I pioneered the FBI's Critical Incident Response course, equipping investigators with essential skills in real-time crisis management and advanced investigative techniques. I taught this course for approximately ten years to FBI Special Agents, and Local and State investigators throughout the United States.

Ventura Sheriff's Department

2003 - 2004

Deputy Sheriff

Assigned to the Ventura County Todd Road Jail where I oversaw the daily activities of hundreds of inmates ranging from Misdemeanor offenders to violent Felony offenders. I worked as a court room deputy charged with the movement and transport of inmates, and the safety and security of the court room.

U.S. Marine Corps

1998 - 2002

Captain

Completed the U.S. Marine Corps Officer Candidate School and Infantry Officer Course and was assigned to 1st Radio Battalion, Kaneohe Bay, HI, as a 2nd Lieutenant. I received additional training in Command-and-Control Warfare, Basic Radio Communications, and Signals Intelligence. As a 2nd Lieutenant, I supervised a unit assigned to collect, translate, and analyze enemy communications systems. As a 1st Lieutenant, I was the Operations Officer for 1st Radio Battalion and oversaw the training and overseas deployment of units in the Battalion. I supervised the Radio Battalion Contact Team, which conducted operations with the I MEF, 23rd Marine Expeditionary Unit. I served as General Conway's Intelligence Officer during his command of the First Marine Division, Camp Pendleton, CA. As a U.S. Marine Officer, I have deployed to several countries in the Pacific and Eastern Europe.

EDUCATION

University of California at Santa Barbara (UCSB)
Bachelor of Arts (Law and Society)

Santa Barbara, CA
September 1996 – May 1998

Ventura Community College
Associate of Arts (Criminal Justice)

Ventura, CA
September 1993 – May 1996

PROFESSIONAL TRAINING & INSTRUCTION

- Ventura County Criminal Justice Training Center, Basic Police Officer Standards and Training, Camarillo, CA (2003)
- FBI New Agents Training, Quantico, VA (2004)
- FBI Project PinPoint Cellular Survey Analysis & Geo-Location Techniques for Investigators, Philadelphia, PA (2007)
- FBI Cellular Analysis Survey Team - Advanced Cellular Historical and Real Time Analysis - Philadelphia, PA (2012)
 - Cellular Network technology and analysis: GSM (2G), CDMA/UMTS (3G), and LTE (4G) cellular protocols,
- FBI Cellular Analysis Survey Team - Training, Charlotte, NC (2013)
 - A detailed program reviewing Radio Frequency (RF) technology for GSM (2G), CDMA/UMTS (3G), and LTE (4G) cellular protocols as well as location-based services.
 - Training in the use of Agilent/JDSU drive test tools, followed by practical applications and certification.
 - T-Mobile, Verizon Wireless, Sprint/Nextel, AT&T, Neustar, U.S. Cellular, Metro PCS provided approximately 30 hours of training on their cellular networks, business records retention periods, types of records maintained and how to interpret their cell site location records.
- FBI Cellular Analysis Survey Team-Training, Denver, CO (2014)
 - A one-week course involving detailed case studies, Cellebrite for cellular forensics, along with PEN LINK training and certification.
 - Cellular service providers AT&T, Sprint, Verizon, T-Mobile and U.S. Cellular provided detailed training on their cellular networks, call detail records, PCMD, RTT, and real-time location-based service.
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- Qualcomm Technologies-LTE Concepts for Business Professionals (2014)
 - Concepts of wireless communications and cellular network operations
 - The evolution of cellular services and technology from 1G to 4G
 - LTE network architecture
 - Key features of the LTE radio interface
- FBI Cellular Analysis Survey Team-Training, Miami, FL (2015)
 - Detailed case studies related to Historical Cell Site Location Information and other location-based records.
 - A review of Radio Frequency (RF) technology, GSM (2G), CDMA/UMTS (3G), and LTE (4G) cellular protocols.
 - Cellular service providers AT&T, Sprint, Verizon, T-Mobile and U.S. Cellular provided detailed training on their cellular networks, call detail records, PCMD, RTT, and real-time location-based service.
 - Gladiator Forensics provided training on utilizing the Gladiator Autonomous Receiver to conduct a field survey of cellular networks.
- FBI Cellular Analysis Survey Team-Training, Denver, CO (2016)
 - Detailed case studies related to Historical Cell Site Location Information and other location-based records.
 - A review of Radio Frequency (RF) technology, GSM (2G), CDMA/UMTS (3G), and LTE (4G) cellular protocols.
 - Cellular service providers AT&T, Sprint, Verizon, T-Mobile and U.S. Cellular provided detailed training on their cellular networks, call detail records, PCMD, RTT, and real-time location-based service.
- FBI Cellular Analysis Survey Team-Training, San Antonio, TX (2017)
 - Detailed case studies related to Historical Cell Site Location Information and other location-based records.
 - A review of Radio Frequency (RF) technology, GSM (2G), CDMA/UMTS (3G), and LTE (4G) cellular protocols.
 - Cellular service providers AT&T, Sprint, Verizon, T-Mobile and U.S. Cellular provided detailed training on their cellular networks, call detail records, RTT, and real-time location-based service.
 - Gladiator Forensics provided training how to utilize the Gladiator Autonomous Receiver to conduct a field survey of cellular network coverage.
- FBI Cellular Analysis Survey Team-Training (2018)
 - Detailed case studies related to Historical Cell Site Location Information and other location-based records.
 - A review of Radio Frequency (RF) technology, GSM (2G), CDMA/UMTS (3G), and LTE (4G) cellular protocols.
 - Cellular service providers AT&T, Sprint, Verizon, T-Mobile and U.S. Cellular provided detailed training on their cellular networks, call detail records, RTT, and real-time location-based service.

- Engineers from the Florida Institute of Technology provided training on cellular network evolution, RF Theory, and LTE.
- FBI Cellular Analysis Survey Team-Training (2019)
 - Detailed case studies related to Historical Cell Site Location Information and other location-based records.
 - Cellular service providers AT&T, Sprint, Verizon, T-Mobile and U.S. Cellular provided detailed training on their cellular networks, call detail records, timing advance/RTT, and real-time location-based services.
 - Training from Oracle, Apple, and Google regarding cell phone forensics, records retention, and geo-location.
- FBI Cellular Analysis Survey Team-Training (2020)
 - Detailed case studies related to Historical Cell Site Location Information and other location-based records.
 - Fundamentals of 5G Cellular communications taught by Dr. Jasko Zec, Florida Institute of Technology.
 - Cellular service providers AT&T, Verizon, T-Mobile/Sprint and U.S. Cellular provided detailed training on their cellular networks, call detail records, timing advance/RTT, and real-time location-based services.
 - Training on Global-Sat Phones, Apple Records and Google Records regarding cell phone forensics, records retention, and geo-location.
- FBI Cellular Analysis Survey Team-Training (2021)
 - A one-week course involving detailed case studies involving Historical Cell Site Analysis.
 - Fundamentals of 5G Cellular communications and deployment taught by Dr. Jasko Zec, Florida Institute of Technology.
 - Advanced Cellular Network Operations taught by Sheldon Meredith, AT&T Network Engineer.
 - Repeatability of Radio Frequency propagation in Cellular Networks taught by Dr. Ivica Kostanic, Florida Institute of Technology.
 - Cellular service providers AT&T, Verizon, T-Mobile/Sprint and U.S. Cellular provided detailed training on their cellular networks, call detail records, timing advance/RTT, and real-time location-based services.
- Wi-Fi Location based positioning system (2021)
 - Farshid Alizadeh-Shabdiz (MIT) provided instruction on how he designed and built the first commercial metro-wide Wi-Fi-based positioning system using Wi-Fi access points. Techniques for mobile device location using Wi-Fi access points are used by Google as one source for Google Location History.
- FBI Cellular Analysis Survey Team-Training (2022)
 - Detailed case studies related to Historical Cell Site Location Information and other location-based records.
 - NETSCOUT and the fundamentals of Timing Advance technology.
 - Understanding Vehicle Cellular Module and vehicle telematics presented by Ford Motors.
 - Cellular service providers AT&T, Verizon, T-Mobile/Sprint and U.S. Cellular provided detailed training on their cellular networks, call detail records, timing advance/RTT, and real-time location-based services.
- FBI Cellular Analysis Survey Team-Training (2023)
 - Detailed case studies involving Historical Cell Site Location Information, Google Location History, and other located based records.
 - Fundamentals of 5G Cellular communications and deployment taught by Dr. Jasko Zec, Florida Institute of Technology.
 - Advanced Cellular Network Operations related to AT&T Data sessions, LocDbor, and networking records taught by Fred Huening, AT&T Network Engineer.
 - Cellular service providers AT&T, Verizon, T-Mobile/Sprint and U.S. Cellular provided detailed training on their cellular networks, call detail records, timing advance/RTT records, and location-based services.
 - Training from Apple and Google regarding product services, data protection, security, privacy, records retention, and geo-location tools.
 - Understanding Vehicle Cellular Module “eSIM” records for analysis and geo-location.
- Global System for Mobile Communications Association-Device Security Group (GSMA-DSG) (2023)
 - Presenter and attendee at multi-day course with Industry representatives from the GSMA-DSG.
 - U.S. Stolen Phone Legislative Efforts and U.S. Carrier Blocklisting (Steve Schwed, Verizon).
 - International Mobile Equipment Identity (IMEI) Security and hardening.
 - Mobile Application Security Assessment and Certification Program (Nataliya Stanetsky, Google)
 - Zero Trust security approach in 5G (Leonid Burakowsky, Palo Alto Networks)
- FBI Cellular Analysis Survey Team-Training (2024)
 - Domestic and International case studies involving historical and real-time analysis of Cell Site Location Information, Google Location History, and other located based records.

- Fundamentals of Analyzing and Mapping Timing Advance/RTT records from AT&T, Verizon, and T-Mobile.
 - Scenario based training on the application of Date Session Records from AT&T, Verizon, and T-Mobile.
 - Cellular service providers Dish, AT&T, Verizon, T-Mobile/Sprint and U.S. Cellular provided detailed training on their cellular networks, cell site location records, and location-based services.
 - Training from Apple regarding product services, data protection, security features, privacy, records retention, and geo-location tools.
 - Review of Vehicle Cellular Module “eSIM” records and scenario-based training in the analysis and mapping for geo-location.
- REVIVER-Training (2024)
 - Training from Kip Loving regarding REVIVER product services, data sets, security, privacy, records retention, and geo-location techniques.
 - Understanding data sets for digital plates paired with a vehicle telematics that help manage and monitor vehicles.
- Global System for Mobile Communications Association GSMA (2024)
 - Presenter and attendee at the GSMA Device Security Group meeting at Google Headquarters.
 - Mobile Theft in the UK (Steve Schwed, Verizon)
 - Mobile Device fraud in the Brazil (Marcia Netto, Sliverguard)
 - Vulnerabilities of Samsung Galaxy A Boot Chain and Beyond (Stavia Salomon & Maxime Bellom, Quarkslab)
 - IMEI Hardening (Steve Schwed and Roger Piqueras Jover)

CERTIFICATIONS

- Certified in the use of Gladiator Forensics field survey equipment.

INSTRUCTOR

- FBI Criminal Investigative Division CAST Certification instructor.
- Developed FBI CAST Curriculum and training guide used to teach local, state, and federal law enforcement.
- Provided historical cell site analysis training to over 1,500 local, state, and federal law enforcement officers.
- Provided training in the area of historical cell site analysis and cellular records to San Diego Inn of Court.
- Provided historical cell site analysis and investigative training to attendees of the International Communications Data and Digital Forensics (ICDDF) held in London, England.
- Provided historical cell site analysis and investigative training to attendees of the International Congress to Fight Kidnappings held in Tela, Honduras.

EXPERT TESTIMONY

- **Over 250 court appearances as an expert witness in historical cell site and location-based record analysis.**

Federal Courts	State Courts		
Las Vegas, NV	Los Angeles, CA	Burbank, CA	Fresno, CA
Houston, TX	Van Nuys, CA	Vancouver, WA	Chicago, IL
San Francisco, CA	Compton, CA	Hillsboro, OR	Santa Maria, CA
Washington, D.C.	Pomona, CA	San Fernando, CA	Columbia, MO
Davenport, IA	San Francisco, CA	Corvallis, OR	Brighton, CO
Los Angeles, CA	Riverside, CA	Maui, HI	Juneau, AK
Santa Ana, CA	Somerville, NJ	Pasadena, CA	Phoenix, AZ
Riverside, CA	Santa Barbara, CA	Long Beach, CA	Inglewood, CA