



Norbert Bryan Neumeister

USAForensic Labs in Phoenix & Detroit

IEEE, IPVM, ABRE, DLA, AES lecturer, SAM, CAGE, DUNS

Court Certified: US Military, Federal, State, Civil, US District Court, Department of Justice,

USAForensic, LLC. Court Certified Audio, Video, Computer, Cell Phone & Cell Tower Forensic Experts.

39 EMMY AWARDS for Technical Excellence

44 Years Professional Experience

www.USAForensic.com

United States Department of Defense – classified & unclassified by contract.

United States District Courts: Contracted Technical Expert

US Department of Justice: Contracted Technical Expert

Defense, Law Enforcement and Government Agencies.

Special Prosecutor's Office on Corruption - P.A.N.E.L. - US & Puerto Rico

Audio Engineering Society- Member & Lecturer

DLA, DARPA: Defense Advanced Research Projects Agency, DOE & DOD (Classified & Unclassified)

Institute of Electrical and Electronics Engineers – Member

Technical work in 23 countries

Work from outside the continental US in the past include matters in: South Korea, The Czech Republic,

Hungary, India, Germany, Puerto Rico (US government task force), United Kingdom, Alaska, Hawaii, Switzerland, South Korea,

Czech Republic, Gaza, Venezuela, Vietnam, Monaco, Hong Kong, Virgin Islands, Canada, Germany, Mariana Islands, Mexico, Greece and France.

Background:

With over 44 years of full-time experience in professional videography, audio engineering, and photography, I have established a robust career as a forensic expert. I have contributed my expertise to more than 1,250 legal cases, serving as a video, audio, or photographic forensic specialist for both sides. At USAForensic, a boutique agency, we intentionally limit our caseload to fewer than 200 cases annually.

In the fields of professional videography and sound, I have been honored with 12 individual Emmy Awards and have contributed to productions that have earned a cumulative total of 39 Emmys in roles such as director of photography and sound editor.

My contributions to sound design have garnered recognition at both national and international levels, including receiving the Golden Lion for excellence at the Cannes Film Festival, gold at the Calgary Film Festival, and numerous awards throughout the United States.

My experience extends to working on over 25,000 voice and video files, encompassing tasks such as authenticity verification, video enlargement and clarification, audio noise reduction, dialogue enhancement, editing, mastering for film, television, radio, and legal matters—including body wires, covert recordings, 911 call analysis, crowd dialogue separation, and recording validation.

Internationally, I have recorded and edited audio in 23 countries and have handled cases in four additional nations. My work includes collaborations with federal agencies on forensic voice analysis projects, both classified and unclassified.

Over the past 35 years, I have documented more than two million gunshots for the Department of Defense, Department of Energy, and various weapons manufacturers.

Our practice maintains a neutral position regarding case narratives, focusing solely on delivering the most advanced data available at the time of processing.

Our clientele includes the Department of Defense, Fortune 500 corporations, private attorneys, and government agencies involved in international, federal, and state criminal and high-profile civil cases. We provide services to both prosecution and defense teams.

Within the past year, I have collaborated with federal and state prosecutors, the Department of Justice, and consulted for the FBI. Notably, I recently provided expert testimony for a government corruption task force outside the continental United States—a case ongoing since 2015.

To preserve impartiality, we engage exclusively with attorneys and do not meet clients prior to casework.

An example of this practice is my role as Johnny Depp's testifying forensic photo and video expert during the Depp/Heard trial. Despite collaborating closely with Mr. Depp's team for over eighteen months, I declined direct meetings with the client, adhering to our policy of maintaining objectivity.

Legal & Technical:

44 Years Professional Full-time Audio, Video & Photo Experience

Worked on well over 1,000 cases internationally with state-of-the-art equipment.

39 EMMY AWARDS for technical excellence

Forensic Audio & Video clarification - daily work - hundreds of cases

Photo forensic expert (noted case - testifying for Johnny Depp in the Depp/Heard trial of 2022)

Tampering detected re dates, Meta data, Exif data & content.

Over 20,000 voice tracks professionally processed since 1980

Cell Phone Forensics – Tower Analysis – 8 years hands on microwave transmission experience

DLA, DOE, DARPA: Defense Advanced Research Projects Agency (classified)

Law Enforcement Agencies, National, State & Local

8 Years Search & Helicopter Rescue (MCSO-DPS- Arizona)

Worked Internal Affairs cases for Phoenix Police Department & The AZ Department of Public Safety.

US Military – Army, Navy, Air Force, Marines & Coast Guard (SAM & Duns contract)

Los Angeles District Attorney's Office -NELOS

Department of Defense & US Department of Energy (classified)

Beta Tester for numerous Forensic Systems Manufacturers

Beta tester for numerous AI programs

Beta Tester for Axon Investigator Pro and iNput-Ace

United States District Court system: Forensic Consultant

United States Grand Jury system: Forensic Consultant

U.S. Department of Justice: Forensic Consultant- Audio forensic work US and overseas cases

Numerous states and counties in the US: OPDS and Office of the Public Defender cases: Vendor

Work with US Army CID Prosecutors Office, Maricopa County Prosecutors Office and others

Phoenix PD Homicide - Mesa PD Homicide- Case Video & Audio Evidence Enhancement

Work with various Innocence Projects - Nation wide

10 Years with NBC Television - Technical Video / Audio

Aviation and Civil Law cases -NTSB data analysis

2 State of the Art Facilities. Over 75 custom Computers & Processors

State of the Art HD Video and Audio Gear. Gear and Software upgraded daily.

3D Sonographs, Spectrographs, Spectral 3D -HD Video & 768kHz - 64-bit Audio

Expert Cell Phone Analysis (Oxygen, Cellebrite, Secure-View): Towers, Transmitters, Phones & Software

D.O.E. Military Forensic High-Speed Video Expert

ACLU, Innocence Project cases

Graduated Pi Sigma Alpha- California State University Northridge - 1980 (Political Science, emphasis on Journalism)

Have worked in 23 Countries as a Technical Expert

Published internationally

Accepting cases is limited to 150-200 per year worldwide.

Non-Military court cases include Federal, US District, Grand Jury, RICO, Homicide, Murder for Hire, Fraud, Robbery, Armed Robbery, Assault with a Deadly Weapon, Arson, Kidnapping, Bank Robbery, DUI, DWI, Civil Cases...etc. Currently working over a dozen Homicide and Capital cases nationwide. For Defense, Prosecution, Civil and Insurance carriers.

Large Cases (Small Sample): (numerous cases are not listed due to confidentiality)

- 2025 Commonwealth of Massachusetts v. **Karen Read**: Surveillance video analysis and clarification for defense on both trials. -found not guilty
- 2025 State of Idaho v **Bryan Kohberger**- Consultant for the prosecution & AGs office (questions submitted for debunking Trax cell tower expert- as Trax software is not white-papered nor peer reviewed)
- Civil: **Johnny Depp v. Amber Heard**: Mr. Depp's Photo Expert – Testified: as Photo Expert / Exif data. *Proved NO technical foundation to Ms. Heard's submitted photos and that key photos were modified.*
- 2025 **Washington DC**- US v. Ronnell Offutt Exif, Metadata and photo expert SWDGE and NIST standards-Defense
- 2025 State of Arizona v. Ignacio Alvarez. Forensic video expert-Defense *Proved NO technical foundation to Ms. Heard's submitted photos.*
- 2024 Prosecution expert Pinal County, AZ v. Adrian Flores Video and Audio Expert: over 80 pieces of evidence entered the case. The defendant was found guilty of murder.
- 2024: Norfolk county v. **Karen Read**: Retained as video expert (2nd degree manslaughter: Mistrial lead- (investigator fired, continuing investigation)
- 2024 State of AZ v. Adrien Jordan – video expert for Defense, murder case with two prosecutors who worked only on this case for two years. The video work uncovered a lot of errors, guesswork by State. Defendant was acquitted of murder.
- 2024 **Government of South Korea** v. Pastor Joshua. Audio forensic expert for the defense. The government's audio was proved NOT to be original. The government's audio was not allowed into evidence. It was the basis of their case.
- 2024 **His Majesty the King v. Umar Zameer** (Toronto, Canada) Defendant charged with murder for running over police officer in parking garage. My report about surveillance video, lack of pixels with that system stipulated by both sides. *Defendant was acquitted.*
- 2023 **Special Prosecutors corruption taskforce in Puerto Rico**- ongoing since 2015 (*on island 5/23*)
- 2023 Civil: Lillian Cocreham: Police double shooting – Video/Photo/Audio expert for Cocreham's legal team. *Settled favorably.* Police also agreed to make a \$39 million dollar investment in new Axon cameras -and settled financially with the mother whose two sons were shot and killed.
- 2023 Clark County Nevada vs Oscar Lee Richardson. Homicide: Photo/tattoo expert for the defense. *Charges dropped*, defendant released after spending a year and a half in jail.
- 2023 U.S. v. Cyran O. Howell – Federal Military Court Martial, retained by the Department of Defense, Army, Served as consultant for the Defense. *Defendant acquitted in bench trial of all charges.*
- 2023 State of AZ v. Donjane Smith: Assault: Photo/video expert for defense: *case acquitted by judge on a Rule 20.*
- 2023 State of AZ v. Stanley Calvin: video expert, *charges reduced from 1st deg. murder to manslaughter, given probation.*
- 2022 King V. Peppard -Alaskan triple fatal Helicopter Crash. Data extraction from crashed helicopter- *case settled favorably*
- 2022 State of AZ v. Samuel Denk. Defense: AXON Video clarification. Officer involved shooting. *Not Guilty*
- 2022 Barry Morphew defense team – Murder case in Colorado (*federal & state charges dropped*)
- 2022 State of AZ v. Martin Levya: 2nd degree murder case: Defense team - *All charges were dropped*
- 2021 State of AZ v. Simona Poulson, Capital Murder & Conspiracy: (cell tower expert for the defense) *Not guilty & not guilty.*
- 2021 State of AZ v Stanton. Murder: (photo expert for the defense) Prosecutorial Misconduct- two detectives resigned, additionally, state's ballistics expert admitted to lying on stand at the behest of the prosecutor. *All charges dropped.*
- 2021 – State v. Ricardo Miranda (Trial testimony, expert witness for the Defense)
- 2021 – Beyers/Munger v. Litchfield (Deposition) Photo Expert – *Case settled favorably*
- 2021 – Hammon v. Giacomini (Deposition)
- 2021 – Anita Tomczak v Don Quixote Hotel, Ltd. (Deposition)
- 2021 – State v. Ross Jarvis (Defense, 2 evidentiary hearings) – *Defendant eventually acquitted.*

- United States v. YN2 Charmaine K. March- (Arson) **Federal Military Court** Martial Retained by the **Department of Defense US Navy Defense** (in 2020) to debunk "Police Cell Tower Tracking Techniques". Daubert hearing determined the Practice was *not a Science* and was *inadmissible*, as it did not meet, as used, Daubert standards in Federal or US Military Court.
- State of Arizona Vs Patrick Stanford 2021. Homicide: Photo expert for the Defense. Case dismissed with prejudice due to "egregious prosecutorial misconduct" on behalf of the prosecutor and police.
- State of Arizona State v. Jerry Stanstead. Hired as cell phone experts. 2021 *Case dismissed even though a state law was based on it.*
- State of Texas v. Fredrick Lee - (Capital Murder) - Retained by Defense as Surveillance Video Expert: *Not Guilty*
- State of Arizona v. Michael Allen Voden- Retained by the Prosecution as Audio Expert: *Guilty*
- State of Arizona v. Steven Jones (NAU) – Video Expert for Defense – State's scene measurement & reenactment video ruled inadmissible due to scientific inaccuracy depicting the scene and possible bias.
- State of Arizona v. Keshawn Green (1st degree murder) - Retained by the Prosecution as Surveillance Video Expert: *: Guilty*
- US Government v U-Haul Philadelphia – Retained by Defense as Surveillance Video Expert: *: Settled*
- US Grand Jury Cleveland, Ohio: Hope Steffi - Retained as Surveillance Video Expert: *Civil large settlement*
- **Government of India:** Sri Nithyananda Swami - Retained by Defense as Video Expert: *Not Guilty*
- US Government v. Charles Keating - In Trial, Retained by Defense as Video Expert: *Not Guilty*
- **United Kingdom** (London, Barrister) V. Tyrone Williams - Retained as Audio Expert: *Civil Settlement*
- US Government v. Charles Keating III - In Trial, Retained by Defense as Aerial Video Expert: *Not Guilty*
- Scaffide v. Lincoln County Wyoming- Retained by Government as Surveillance Video Expert: *Not Guilty*
- State of Arizona v. Jeffery Martinson - Retained by Defense as Video Expert
- State of AZ v. Antonio Brown (rape) retained by pro per- Not guilty *Willits issued against prosecution.*
- City of Phoenix v. Copeland: retained by City as Cell Tower Experts: *Civil, favorable settlement.*
- State of Montana v. Daniel Pallet- Retained by Defense as Surveillance Video Expert: *Dismissed with Prejudice*
- State of Arizona v. Pedro Barraza – Retained by Defense as Surveillance Video chain-of-custody Expert: *V. Not Guilty*
- State of Arizona v. Alan Champagne (1st Degree Murder) - Retained by the Prosecution as Surveillance Video Expert: *V. Guilty*
- **State of Arizona v. Jodi Arias** – *Penalty Phase* – Defense Computer Expert - *"During the first trial in 2013 and earlier in this trial, Mesa police experts testified that there was no porn and or viruses on the computer. Martinez had used that testimony to impeach Arias' claims that there were both, and it furthered his portrayal of Arias as a liar. But defense experts subsequently found porn and the viruses associated with the device. Mesa police have since admitted it was there all along."* –Gannett

Precedent Setting Cases:

- United States v. YN2 Charmaine K. March- (Arson) Federal Military Court Martial Cell Tower expert for the Defense Retained by the Department of Defense (in 2020) to debunk "Police Cell Tower Tracking techniques" - Tower Tracking was ruled inadmissible in trial as "a practice, rather than actual science". In a Daubert hearing the only use granted by the Federal Court was that the Prosecution's expert could say the phone connected in either the East or West coast of the United States. *The Judge had a technical background.* Not Guilty
- State of Arizona v. Jerry Stanstead: accused of texting and driving leading to an accident, tragically taking the life of a police officer. Arizona's texting driving law was set by this case. Upon USAForensic review of the phone and tower records, the case was dismissed as Stanstead's phone had been idle for 2 minutes prior to the crash.
- State of Arizona v. Steven Jones (referred to in the media as the NAU Shooter) – Video Expert for Defense – State's scene measurement & reenactment video ruled inadmissible due to possible bias and scientific inaccuracy depicting the scene. Charge reduced from initial 1st degree Murder to Manslaughter.
- US v. Daniel Scott Pallett, CR 18-11-M-DLC According to the federal rules of evidence 902-13/14 there must be metadata (hash values) connecting the submitted files presented to the original data. Since the original data was never presented and the original files never Hashed- there was a chain of custody issue. The Case was dismissed with prejudice Missoula, Montana on exactly those Daubert grounds. (Attorney Nick Kirby Brooke)
- State of AZ v. Pedro Barraza CR2016-002708 The judge dismissed several of the charges lodged against the defendant, as police could not authenticate the video, which was the strongest evidence they had against Barraza. Proper procedures,

protocols were not followed when they obtained it, the video was not allowed into evidence. Not guilty verdicts for four defendants. (Attorney Marcus Finefrock)

- State of AZ v. William James Hartwell CR2015-001482 When asked to preclude video in this trial, the judge (Sheri Stephens) ruled that because the video on a hard drive had been simply viewed without a write-blocker, the dates-last-modified were changed and the video was not valid in court. (Attorney Rick Poster)

Books

"Earthbound Misfit" (Helicopter Rescue, TV Helicopters, Medivac & work with Law Enforcement agencies) 591 pages - senior contributing author & consultant.

"The Secrets of the Blue Oyster Cult" - Bryan Neumeister discussed as Blue Oyster Cult musician & composer on "Curse of the Hidden Mirror" & "Heaven Forbid" Albums.

"Career of Evil" – author J.K. Rowling (Harry Potter) - Lyrics used in book from Blue Oyster Cult album I co-wrote songs on.

"After You're Dead" -Featured as Forensic expert character, "Bry", in #1 bestselling series of Crime/Fiction books by author Cary Allen Stone.

"SEEDS, The Journey Begins" – Science Fiction. Character likeness and full name used in book as a scientist. -Autor #1 bestselling Amazon author Cary Allen Stone. 2019

"SEEDS, The Journey Continues" – Science Fiction. Character likeness and full name used in book as a scientist. -Autor #1 bestselling Amazon author Cary Allen Stone. 2020

"SEEDS, The Journey Home" – Science Fiction. Character likeness and full name used in book as a scientist. -Autor #1 bestselling Amazon author Cary Allen Stone. 2021

"SEEDS Trilogy" revised- Science Fiction. Character likeness and full name used in book as a scientist. -Autor #1 bestselling Amazon author Cary Allen Stone. 2021

National News Media: Forensic Analyst:

- Esquire Magazine (international publication) Artificial Intelligence "Impact of AI"
- 48 Hours (Audio Expert) 2022 (current show production)
- 2023 A&E DeJone Smith -Gavel to gavel coverage on case that was thrown out by a Rule 20 in Maricopa County - Acquittal.
- CBS & FOX News San Diego. 2021 Active case audio clarification
- FOX Business Network: Featured Forensic Expert <https://www.youtube.com/watch?v=O4KAKImynIs>
- CNN: Advisory Video Expert
- Marriage From Hell- TV documentary Forensic expert (Johnny Depp case)
- The Science Channel Six 1-hour Episodes on Video & Audio Forensics
- Universal Studios/BBC & MSNBC: Video Forensic Expert: *Real, Fake or Unknown* TV series
- Six 1-hour episodes of TV series analyzing viral videos with unknown metadata
- CNN: Jodi Arias: Audio & Photographic Forensic Expert (in Trial testimony)
- FOX News: Boston Bombings: Forensic Surveillance Expert (analyst)
- CNN: Trayvon Martin / Zimmerman: Audio Forensic Expert (analyst)
- NBC/Gannett: Forensic Surveillance Expert
- Numerous Podcasts 2022 (Cold Case Files etc)- forensics.
- 150 million+ media hits on USAForensic, LLC. & Norbert Bryan Neumeister

Publications:

Published Nationally re Forensics

- The Legal Investigator Magazine- Surveillance Systems - TV vs. Reality
- High Tech, High Stakes Published in Expert Ease - National Forensic Publication.
- Consultant to CPU Magazine as a Forensic Audio and Video Expert on Hardware and Software.
- Featured by NEAT Video in online publication & mailer re forensic video clarification.
- Experts.com Main expert on two publications on Deep Fake video.

Lectures:

- 2024 slated US Office of the inspector General, Social Security. Two lectures for up to 200 forensic experts on the latest in state-of-the-art equipment and software.

- 2023 Princeton & Georgetown Law: Grad students working on a PCR: Subject: DVR Video and Photo chain of custody. Covered video & photo clarification involving different algorithms, compression methods and use of AI.
- 2022 Women in E-Discovery – Johnny Depp case Forensics. In addition: Cell Tower, Cell Phones, Computers Photo Video, and audio
- 2020-2021 lectures rescheduled due to Covid
- 2019 State Bar of Arizona (CLE)
- *Latest in forensic (beta) technology and what can now be done forensically with electronic data*
- 2018 Audio Engineering Society:
- *Metadata and chain of custody of files: dithering I file conversion*
- 2018 CLA Conference:
- *Digital Forensics (Facility) Cell phones, Towers, Metadata, Photos, Computers Audio & Video Forensic*
- 2018 AACJ Annual Attorney Winter Conference (Facility)
- *Digital forensics: Audio, Video, social media, Cell Phones, Towers, Computers & Photography*
- 2107 Audio Engineering Society:
- *Cellphone forensic audio re metadata, chain of custody, forensic acquisition of audio*
- 2016 Federal Habeas Conference
- *Cellphone and Tower forensics*
- 2016 Audio Engineering Society:
- Topics: *Multi-Pathing of Transmitted RF Signals, Forensic audio*
- 2015 Inns of Court:
- Topics: *Cell Phone metadata, Audio & Video Forensics*
- 2015 Audio Engineering Society:
- Topics: *Pareidolia, Dithering, Forensic Audio & NyQuist Theorem*
- 2014 Audio Engineering Society & Conservatory of Recording Arts
- Topics: *NyQuist Theorem, Sample Dithering & Forensic Audio*
- Opening of the 2013 APDA (Arizona Public Defenders Conference)
- Topics: *Audio, Video, Photographic & Surveillance Forensics*
- APDA Faculty Member - 1,550+ Attorneys attended conference (June 26-28, 2013)

Television: National & International Broadcast:

Recipient of 39 EMMY AWARDS from The National Association of Television Arts and Sciences for Technical Excellence

40+ additional National & International Awards.

Winner CANNES Film Festival (Gold) (Technical Audio Excellence)

Winner CALGARY Film Festival (Gold) (Technical Audio Excellence)

Worked for NPR & NBC Television News stations for 12+ Years.

Winner: Film Advisory Board Gold Medal, Parents Choice Award

Film & Television Clients:

For the BBC: PLANET EARTH III - finished filming part 3 of the Emmy Award winning series.

NBC - ABC - CBS - PBS - BBC - FOX - DREAMWORKS - SCREEN GEMS FILMS - TOUCHSTONE FILMS - LUCASFILMS LTD. - LEVIS - COCA COLA - AMBLIN ENTERTAINMENT - PEPSI - VOLKSWAGEN - TOYOTA - CHEVROLET - NISSAN - AMERICAN EXPRESS - UNIVERSAL PICTURES - LORIMAR - TRIMARK FILMS - TRIMARK ENTERTAINMENT - GANNETT - A&E - DISCOVERY CHANNEL - FOX - DIAL SOAP - COORS BEER - BUDWEISER - MTV - PIZZA HUT - MOTOROLA - UNION CARBIDE - DISNEY - INTEL - MICROSOFT - VISA - MASTERCARD - ARMY - NAVY - AIR FORCE - MARINES - UNITED AIRLINES - CONTINENTAL AIRLINES - PARTNERS FILMS CANADA - PRTV - NATIONAL MEDIA - MOMENTUM FILMS - DFXTV - LOTTO/LOTTERY - GREYSTONE PICTURES - HISTORY CHANNEL - DISCOVERY CHANNEL - WARNER BROTHERS - DAIRY QUEEN - AT&T - MLB - NBA - NFL - SUPER BOWL XXX - ESPN - MAJOR LEAGUE BASEBALL - McDonald's - MCI - HARLEY DAVIDSON - STOUFFER'S - CARQUEST - MD HELICOPTERS - BOEING - "FUTUREWEAPONS", "MYTHBUSTERS" {THE LUXOR - FLAMINGO - STRATOSPHERE - CESAR'S PALACE - MGM GRAND - NYNY - The HARD ROCK...CASINOS all in LAS VEGAS} - NUMEROUS ADVERTISING AGENCIES...

Certified Cell Phone Forensics:

Latest Cellebrite *Ultimate* 4PC, Secure-View Forensics, Oxygen Detective, CheckM8, Checkra!n, APEX Laboratory and Field systems

2025 Cellebrite Cloud Analyzer. Oxygen Detective Cloud Jet Extractor

SV Striker box, PassWare Forensic, EnCase, etc.

Police use of Cell tower tracking debunked - US Federal court (Department of Defense contract)

PassWare Complete Forensic Decryption of latest encryption methods using server farms.

All cell phone communications Apps, iCloud, iOs, Android, Windows OS etc. Password decryption & recovery.

Cellebrite design team - USAForensic's Matt Erickson - Knowledge C databases etc.

DCode, Plist, SQLite Browser, Opanda, Kies, EnCase Extractor, EnCase readers, FTK, Professional data recovery.
Fly-pack Alienware 16 Core multi-SSD Field-Units with external render box for decryption if needed during extraction.

Cell Towers & CDRs:

NOTE: CDR plotting is a practice - not a scientifically peer reviewed science.

CDR tracking is NOT approved by NIST, FCC, IEEE, or any scientific entity. Airtime providers will not testify in court as to accuracy.

Numerous court filings and motions with attorneys regarding lack of any scientific white paper on police methodology.

In a Daubert Hearing in US Federal Court Norfolk VA, (2020) Hired by Department of Defense to debunk "cell tower tracking: Police Tower Tracking was ruled as a practice but NOT a Science. Does not meet FRE 702 standards of evidence. The tower accuracy was set by a Judge with an engineering background to only: the Eastern or Western United States.

Cellebrite, D.A.R.T & 2023 Oxygen Detective Plotting for reference

Call Data Records & Towers (Lucent, Samsung, Nortel) *PATC certification*

AT&T, Verizon, Sprint, T-Mobile, Cricket, US Cellular, Tracfone, MetroPCS and subsidies...

Call Records Analysis – Switching analysis. *Cloud, SMS, MMS E-Mail.*

TOWER Dumps: Lucent, Samsung, Motorola, Ericsson etc. *PATC 2016*

Cellebrite Cloud analyzer. Oxygen Detective Jet

GPS, NELOS, Wi-Fi and Blue tooth tracking and E911-FCC mandated data location logs.

Paperwork for legal requests for all the above available on www.USAForensic.com.

Forensic Video & Surveillance Video Recovery/ Analysis

Custom AI artificial intelligence 8K algorithms written for specific codecs and formats:

Beta Tester of Software & Hardware for leading Forensic Companies (AXON, NEAT, Topaz, Cellebrite, Clear-ID, iZotope, DC10 Forensics DVR Examiner, AXON Examiner Pro (working beta-tester), Omnivore, D-plex Pro Forensic, D-Tective, Clear-ID Forensics and numerous forensic systems with over 400 clarification plug-ins. 8K file handling.

DaVinci Resolve Studio 20, Vegas 23 Suite, Axon Investigate Pro

Artificial Intelligence software updated daily.

Latest computer and cell phone programs *such as FTK, Autopsy, Cellebrite, Apex, Secure-view, Oxygen, EnCase...*

Hard drive recovery for US Military (SAMs vendor) - Forensic drive analysis.

Recover damaged files, deleted files - Surveillance system computer drives.

Validate video pixel by pixel with Examiner Pro and other software.

Tampering or Keying detected.

Restore corrupted photographic or video files.

Photo Clarification using numerous programs & AI, Clear-ID, Pixel Stacking & Frame averaging etc.

Working with computers since 1977. Field Extraction team available.

Network analysis, Tor tracing, Brute force & PassWare decryption etc.

PassWare Forensic Decryption of 280+ encryption methods using 36 core liquid cooled systems and server farms.

Tampering detected of dates, Meta data, Exif data & content.

Determining how files got onto a computer.

Hardware Oscilloscope. Vector, RGB, Waveform and Luminance scopes.

Computers

EnCase Ultimate, X-Ways, Autopsy, FTK and many other specialized tools:

PassWare Forensic decryption. Custom 36 core liquid cooled machines.

First code written in 1977 while attending Cal State University.

Recovery using Tableau write-blockers USB 3.0 T8-R2 & T35ES-R2 Tableau & raw "dd" & DME forensic Imaging.

Hard drive recovery for US Military (SAMs vendor) - Forensic drive analysis.

Recover damaged files, deleted files, Changes in Registry & Meta-Data, Hash values

All Surveillance Systems as well as Computer Drives: raw "dd"

Restore corrupted photographic files.

Photo Enhancement using Artificial Intelligence, Clear-ID, Pixel Stacking & Frame averaging etc.

Working with computers since 1977. Two Field Extraction teams available.

Network analysis, Tor tracing, Brute force & PassWare decryption etc.

PassWare Forensic Decryption of 280+ encryption methods using 36-core liquid-cooled systems.

Determining how files got onto a computer.

Validating dates of files/ changes to files via Sha2 HASH values.

Header Data verification

Forensic Photographic work:

Photographic clarification, Exif and metadata validation
Tampering detection: date, time, geolocation, content, Exif & Meta
Lux, Luminance & RGB analysis
Film, Digital, thermal imaging, and infra-red cameras
Numerous programs and plugins, AI, Clear ID Forensics, iNPUT-ACE, AXON Investigate Pro, Omnivore, Deplex-Pro
Vectorscope, Waveform scope, Luminance and RGB scopes in Lap
Pixel data analysis / Frame & Field level analysis
Lens and lens-aberration analytics
Lens MM relations to chip size and format
Lens wide-angle distortions correction using metadata.
Deleted or Damaged Photo data memory cards recovered.
Cellphone camera metadata work.
Geo data verification
Dozens of forensic photo analytical plug-ins
Still lifted from 8k video and clarified.
All 17.5 x 11 -inch stills printed on heavy photo stock at 1200 PPI.
Studied from 1974-1979 with Dr Bill Wallner (co-inventor of infra-red photography)
Cameras from high-end Hasselblad thru Panavision down to GoPro
Ultra-High-speed camerawork with Phantom-V cameras
Cineflix & Cine-Alta.
Helicopter mounts 14,500+ hours aerial cinematography
Have shot professionally in 23 countries.
Complete 8K up-Rez in lab.
8K, 10-bit calibrated 4090 video cards and reference monitors.
Pantone charting and color correction in field and lab
Lux and Luminance lighting measurement in accident or crime scene cases.
3-axis gyro-stabilized cameras
All available camera mounts for GoPro 4K cameras for accident and test work.
DOD and DOE military testing high speed and aerial photography.
FAA licensed 4K Drone operator
Testified numerous times on photographic issues in Federal, Criminal, Civil, Military, and Aviation cases.
Photo Work published internationally.

Field Cameras

For evidence gathering and accident recreation include Red & Cinealta 8K, Sony 4K & HD cameras, DJI Osmo, 3Axis stabilized 4k system, GoPro 4Ks all mounts and FAA Licensed 4k Drone. Fuji 3D Camera. Ultra-slow-mo Phantom Cameras available. Mercalli stabilization and Re-SpeedR. Editing and all monitors are true 4k = 4086*2160.
Thermal Imaging.
Thermal Video and still along with mixed format Thermal.
Emmy Award winning crews for crime scene Recreation.

Professional Sound & Music:

Over 20,000 voice tracks professionally worked with since 1980
Federal, US District Court, State, US Military, Civil and Aviation cases to TV Network television, commercials, video games and films
Sonographs, Spectrographs and 3D Audio Decibel and Frequency Mapping
iZotope RX professional, 3D Spectral Audio, DC10 Forensics, Pro Tools, Plugins from Cedar, Fairlight, Waves, iZotope, Plugin-Alliance BX-Series, Bauer, SSL, NovelTech, BlueCat, SPL, FabFilters, Sony, Sequoia & over 400 forensic plugins and programs running on 36 core liquid cooled computers.
Federal and State voice comparison cases
Set Daubert standard for voice comparison in Arizona.
Phonetic breakdown of spoken words on spectrograph.
Sonographs, Spectrographs and 3D Spectral audio graphs printed and embedded in forensic reports.

Human Voice separated from background noises and ambience.
 Tampering detection
 Metadata analysis
 Nyquist Theorem analysis
 Edit detection.
 Dithering analysis
 Re-sampling analysis
 Audio background continuity
 Sine wave detection or embedded frequency (agency)
 AC power ground loop & harmonics removal.
 Background noise removal.
 Phase cancelation and removal of music from dialog
 Voice clarification, harmonic enhancement for muffled audio
 Removal of reverb (jail hallways or lecture halls etc)
 Removal of mic thumps and clicks that can be misidentified as edits.
 Transfer of tape to HQ digital medium: cassette, micro cassette, reel to reel
 Police radios split tracked.
 32-bit audio running in 64-bit systems 192 kHz field units.
 Conversion of any audio codec to another PROPERLY with correct dithering
 Time coding of audio for clients down to thousandths of a second for easy reference.
 IEEE engineering standards

Written & Recorded Music

Written with *Blue Oyster Cult*, 25+ million albums sold - Gold & Platinum records & *Creedence Clearwater Revival* recording artist Tom Fogarty (Movie Score).
 -Written music for hundreds of commercials including music cuts for Super Bowl XXX
 -Written Music/SFX for 5 popular Video Games.
 -Mixed & engineered for numerous top recording acts: Jazz, Rock & Classical.
 -Worked "Live" sound as sound mixer for concerts with crowds up to 35,000. *Challenging live mixes like: Chick Corea, Return to Forever, Ronnie Laws, Gerald Wilson's 24 piece Big Band etc.*
 -Recently won another Emmy Award for best music on a Television series (Written & Performed).
 I have Mixed and Mastered many National, International & Regional Television Shows.

Aerial Photography / Rescue / Surveillance:

Over 14,500+ Flight Hours of Jet Helicopter Photography – Film, HD Video, Research, Surveillance, Search & Rescue for Law Enforcement & Wildlife Rescue - Civilian Military Contractor.
 Advisory Partner & Photographer - 4:4:4 Professional Film & TV Helicopter (*SaberCat HD*)
 Pilot received the Harmon Flight Trophy from President Reagan at the White house.
 The Trophy is currently on display in the Smithsonian Air and Space Museum.

FAA Licensed: AERIAL 4K GPS-guided VIDEO DRONE

FAA licensed 4K Video-drone, *Phantom Quadcopter*: Satellite-GPS controlled: Owner & Operator); Mounted camera *GoPro Hero* 4K Black Edition
 Thermal Imaging & Thermal Video Recording with image-on-image technology
 Night Vision & Infra-Red
 OSMO 3-axis stabilized 4k system, fully loaded.

Forensic Counter-Surveillance:

Radio Frequency Response 10MHz ~ 10GHz (20+ GHz if needed)
 Analog, Digital, WiFi, Cellular GSM/GPRS/EDGE/3G/4G signals all will set off alarms.
 Detection Frequencies: GSM 880-915MHz, CDMA 824-849MHz, WCDMA (1920-1980MHz), and DCS (1710-1785MHz)
 Digital 'Burst' Signal Detect for all GSM/3G/4G Trackers/SMS(Text) detection
 Series and Parallel transmitters
 Automobile GPS transmitters
 Transmitting GPS trackers (only when GPS device is transmitting signal location)
 Devices on internet phone and IP phone
 Detect & Prevent:

Wire telephone tapping

Laser tapping

Recordings of a voice recorder, tape, digital and parabolic reflector using white noise & sibilance.
generators

40HZ 100-watt sine-wave generators to eliminate laser recording from windows.

Thermal Imaging & Thermal Video Recording with image-on-image technology

1080P Sony Night Vision Cameras & Infra-Red Lighting -OSMO 3-axis stabilized 4k system

Weapons: Classified & Non-Classified:

Over 2-million rounds photographed & recorded both audio and video, including Phantom high-speed filming and forensic testing over 41 years. Work & have worked with -US Navy Seal Teams 1, 2 & 6, SOCOM, DEVGRU, 160th Night Stalkers. US Army Sniper teams. DOD & DOE.(classified and unclassified)

-Worked on many homicide cases involving gunfire sound analysis, frequency, location & Triangulated acoustics.

-Worked with numerous surveillance videos to enhance shooting scenes for law enforcement and attorneys.

-Gunshots analyzed, compared & enhanced from: cell phones, land lines, surveillance equipment, 2-way communication, Police Duplex & Simplex, etc.

-Worked numerous cases requiring gunfire video enhancement from surveillance systems, cell phones and various recording devices.

-Have access to many renown civilian & military firearms experts for testimony as needed.

-Harmonic resonance tested on various weapons platforms.

-Additionally, work with many US Government retained Military contractors.

- US Military SAMS / DUNS contract.

-Worked with numerous SWAT and TOU teams in actual field operations.

-Worked with LAPD, w/ Krav Maga training.

-MSCO Helicopter Rappel Trainer (1980s Tac-Ops-Unit) - MSCO Helicopter Search & Rescue = SKY12 & DPS

-Worked with Springfield Armory testing the initial launch of the entire XD Pistol line. 9 mm, .40, .357, .45

-Work often with DillonAero on the M-134 Mini-gun project (over 20 years working together).

-Analyze Muzzle flash and sound signature of McMillan Sniper rifles for US Army Snipers (over 10 years of work together).

-Air to Ground target acquisition and aerial sniper training documentation. Thousands of hours of aerial law enforcement, search & rescue & air to ground gunship work.

-Assigned to USS CVN70 Carl Vinson and Helicopter-Carrier USS New Orleans as civilian videographer.

-Have been a "go to" guy for live Weapons Photography & Sound Recording for The Military Channel, History Channel, MythBusters, Future Weapons, Discovery Channel, National Geographic, BBC and many others.

-Produced one of the largest selling automatic weapons DVDs ever made, "Firestorm in the Desert" &

-Produced one of the largest selling handgun training DVDs of all time with Rob Leatham, "Shooter Ready

Civilian Technical Advisor on the board of CowTown Range & Studios, which is an extremely active 88-acre Training facility for SOCOM, Swat Teams, Navy Seal Teams, DEVGRU, Homeland Security and many Special Operations teams. CowTown Range is currently under DOD and various Agency contracts for range work, tactical training, and weapons development.

Weapon recording analysis for cases includes.

Various rounds recorded over surveillance systems, cell phones, 4k, HD, SD and high-speed Phantom video cameras.

Diverse types of pressure, loads, powders, barrel length and calibers recorded for analysis.

Cell phone cases include NyQuist Theorem frequencies relating to cell Phone FQ range, Sample Rate and Bit depth of recordings.

Cell phone line noise and background audio of conversations recovered from 911 calls.

Dithering artifacts created during sample rate conversions.

Dithering harmonics relating to audio captured by Cellebrite or Oxygen Forensics, when transferred to 44.1-16 bit for distribution.

Cell call transmission, multi-pathing of signal, tower horn tracking v. switcher tracking, topographical anomalies of transmissions, transmission artifacts

Phase cancellation of recordings due to microphone set ups.

Distances of cell phone to firearm (FARO 130 system)

Shootings captured by police wire or boomerang units.

Sonographs and spectrographs along with 3D Spectral recording to narrow down gunshots to 1,000ths of a second.

Shooting weapons in range shoot houses or gun ranges recorded over cell phones.

Shots recorded over cell phones in cars, houses, open acoustic spaces.

Ambiance and acoustics graphed and measured of gunshots on surveillance and cell phone.



Phoenix & Detroit Labs
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