

# Curriculum Vitae – Doug Carner AVFA,CCFE,CPP

## Audio Video Forensic Analyst

**Certifications** (current list. All listings required training, testing and board/peer review)  
10/05/18 certified Audio Video Forensic Analyst (Electronic Technicians Association)  
01/04/16 Certified Computer Forensics Examiner (Information Assurance Certification Review Board)  
12/17/07 Certified Protection Professional (American Society for Industrial Security)

### Positions - Current

Digital & Multimedia Sciences Section member (American Academy of Forensic Science) since 2018  
Forensic Sciences Committee (American Society for Testing and Materials) since 2015  
Owner: "Forensic – Audio Video Innovations and Solutions" (6,000+ members, LinkedIn id#2461639)  
Manager: "Law Enforcement Professionals..." (16,000+ members, LinkedIn group id#44211)  
Manager: "Electronic Discovery Professionals" (10,000+ members, LinkedIn group id# 60739)

### Positions - Former

Digital Forensics Chair (Scientific Association of Forensic Examiners). 2019-2024  
"Audio, Video & Photo Analysis", Los Angeles Superior Court Panel of Experts. 2014-2024  
"Forensic committee" Chair, American Society for Photogrammetry and Remote Sensing. 2018  
"Executive Board", Forensic Expert Witness Association, Los Angeles chapter. 2016  
"Science and Practices" committee, International Association for Identification CA Division 2015-2016

### Forensic Membership

International Association for Identification (National and CA State Division), Forensic Expert Witness Association, International Association of Forensic & Security Metrology, Southwestern Association of Forensic Scientists, and Scientific Association of Forensic Examiners

### Industry Membership

American Society for Industrial Security, American Society for Photogrammetry and Remote Sensing, Audio Engineering Society, Electronics Technicians Association, International Public Safety Association, International Association of Law Enforcement Intelligence Analysts, and The Society for Standards Professionals.

### Forensic Innovations (peer-reviewed)

RGBamplifier – Subtle motion and color change amplifier  
VideoCleaner – Forensic image & video enhancement and authentication software (lead developer)

### Other Innovations (partial list)

Invented several security cameras, "Pay-at-the-gate" kiosk, and a wireless alarm (patent#6400267)

### Forensic Contributor (partial list)

AVFA	Accredited peer-reviewed forensic multimedia certification (committee chair)
Blurity	Blurity.com (Forensic blind deconvolution, focus, motion corrective software)
Forensics	DiamondCut.com (Forensic audio enhancement and authentication software)
MAT	Multimedia Authentication Testing (forensic digital file testing form)
VELA	Video Error Level Analysis (video tamper detection methodology and code)
Video Enhancer AI	AVCLabs.com (Artificial Intelligence video enhancement software)
VideoExpert	Vocord (Forensic video enhancement and authentication software)

### Forensic Training (excludes conferences, webinars, lectures, and trainings without a practical exam)

11/29/17 Certified Forensic HiTech Investigator (McAfee Institute). Expired 2023  
09/18/17 Digital Video Forensics (eForensics Magazine, 25 CEU).  
04/19/12 Forensic Imaging with Adobe Photoshop (Rocky Mountain Training)

### Manufacturer Training (partial list)

American Dynamics, ArcVision, Bosch, Dedicated Micros, Genetec, Panasonic, Pelco, TYCO, Verint

## Clients

Caseload is about 40% Plaintiff - 60% Defense, and is 100% of my work income. I routinely donate to innocence projects, forensic peers, and the development of forensic software and standards.

## Background

Since 2010: President of Forensic Protection, Inc. (13654 Victory Blvd., Dept #800, Van Nuys, CA)  
6 Years at several system integrators. CCTV, audio and security design and deployment  
10 Years at QuikStor (Van Nuys, CA). Lead engineer and VP Sales & Marketing  
5 Years at Deltrex (Los Angeles, CA). Owner. Custom multimedia, software and electronics  
Bachelor of Science, University of California, Davis (Phi Beta Kappa) 1989

**Testimony & Depositions** (21 of 31 Testimony for Defense, 20 of 33 Depositions for Plaintiff)  
03/28/24 People v Fredrick Donnell Williams Jr; (38-2021-CF-000083-A) – Eighth Judicial Circuit, FL  
– Video – Deposition (video) – Defense  
03/18/24 Geramy Dickerson v CDCR; (SPB Case #23-1344) – California Department of Corrections  
and Rehabilitation – Video – Testimony (video) – Employee reinstatement hearing  
09/21/23 Geramy Dickerson v CDCR; (SPB Case #23-0535) – California Department of Corrections  
and Rehabilitation – Video – Testimony (video) – Employee reinstatement hearing  
07/17/23 Thomas & Weisman v. Petty (21STCV08680) – Superior Court, Los Angeles, CA –  
civil – Video – Deposition – Plaintiff  
05/10/23 Roberts, Ronald Bruce Smith v. Publix Super Markets, Inc. (CACE-21-016530) –  
17<sup>th</sup> Judicial Circuit, Florida – civil – Video – Deposition – Defense  
02/28/23 State of Florida v Jorge Estevez (M21013935) – Lawson E Thomas Courthouse –  
criminal – Video Authentication – 402 hearing & Testimony (video) – Defense  
12/14/22 Jesus Cuevas v CDCR; (SPB Case #22-0782) – California Department of Corrections and  
Rehabilitation – Video – Testimony (video) – Employee reinstatement hearing  
10/18/22 Aron and Glen v Transhorn Trucking; (50-2020-CA-013458-XXXX-M) – 15th Judicial Circuit  
Palm Beach County FL – civil – Video – Deposition (video) – Defense  
10/04/22 Benjamin Smith v CDCR; (SPB Case #22-0621) – California Department of Corrections and  
Rehabilitation – Video – Testimony (video) – Employee reinstatement hearing  
03/09/22 People v. Ashley Butts (BA447486) – Los Angeles superior court – criminal  
Audio authenticity – Testimony (video) – Defense  
02/01/22 Nathaniel Ian Dickinson Wild v. Marlene Gomez (21PSRO01751) – Los Angeles superior  
court, Family division – civil – Video AI – Testimony – Plaintiff  
01/26/22 Alvaro Saldivar v. Grimes Rock, Inc. (West 2021-0265) – Federal Mine Safety and Health  
Review Commission – civil – image clarification – Testimony – Defense  
01/11/22 McDowell v Ford Motor Company (30-2016-00866952-CU-PL-CXC) – Orange County  
Superior Court – civil – audio clarification and analysis – Deposition – Plaintiff  
10/15/21 William Mora et al v Albertsons et al (BCV-17-102396) – Kern County Superior Court –  
civil – video clarification and analysis – Deposition – Defense  
09/29/21 Scott v Tebha; Cloud9 LV, LLC dba Evapor8 (A-18-779830-C) – 8th Judicial District Nevada  
– civil – video analysis – Deposition – Plaintiff  
08/10/21 Kim v Romeo Management, Inc. (19STCV06301) – Los Angeles Superior Court – civil –  
video – Deposition – Plaintiff  
06/09/21 The North Carolina State Bar v. Daniel C. Flint, Attorney – North Carolina State Bar – Audio  
Authentication – Deposition – Defense  
05/12/21 Michele Von Merveldt v. Rolf Von Merveldt, III (CACE-17-007267) – Jefferson County  
(2019DR30808) – family court – audio authentication – Testimony  
12/11/20 Maisonet, Merari v. Publix, (CACE-17-007267) – 17<sup>th</sup> Judicial Circuit, Broward County, FL –  
civil – video – Deposition – Defense  
11/20/20 Wismettac Asian Foods Inc. v. Local 630 (VC066751) – Los Angeles Superior Court – civil –  
video authentication – Deposition – Defense  
09/23/20 Jonathan Felix v City of San Diego (19cv891 W MSB) – U.S. District Court, Southern  
California – civil – video – Deposition – Plaintiff  
03/10/20 Sonia Naranjo v Walmart Inc (BC713240) – Los Angeles Superior Court – civil – video –  
Deposition – Defense

02/24/20 McGowan v. Stutesman – USDC D.Or. (6:17-cv-00424-TC) – U.S. District Court, Oregon District, Eugene Division – civil - video – Testimony – Defense

10/30/19 Jovan Webb v City of Waterloo, et al. (6:17:CV:02001LRR) – U.S. District Court, Northern District, Eastern Division – civil – video – Deposition – Defense

09/16/19 Heddie Kanipes v. Anthony Kanipes (CL18-92) – Petersburg Circuit Court – civil – videogrammetry – Testimony & Deposition – Plaintiff

08/28/19 People v. Terell Moody (YA098013) – Los Angeles Superior – criminal – audio authentication – Testimony – Defense

08/08/19 People v. Derrick Park (LA088082) – Los Angeles Superior – criminal – video authentication – Testimony – Defense

06/27/19 Holmes v. Harris (18-CV-3739) – Central District California Court – civil – videogrammetry – Testimony – Defense

02/15/19 Austin Orlando Bocachica vs Gulfstream Park Racing Association (16-009627 09) – 7<sup>th</sup> Judicial Circuit Broward County, FL – civil – photogrammetry – Deposition – Plaintiff

02/11/19 Austin Reilly et al v. Michael Charles Parker, Domino's Pizza, Inc. et al (BC619135) – Los Angeles Superior Court – civil – video clarification – Deposition – Defense

09/20/18 Bryan C. Thompson v. Adam Coy Summers and Guillermo Lara Molina (17 CVS 352) – Yadkin County Superior Court – civil – video clarification – Deposition – Plaintiff

08/30/18 P. v Jonathan Wayne (7PC03049) – Los Angeles County Superior Court – criminal – image authentication – Testimony – Defense

07/27/18 Acacia Tinsley v. Yin Trust DBA McDonald's Restaurants (FCS048091) Solano County Superior Court – civil – video enhancement – Deposition – Defense

06/21/18 Morino v. Jack in the Box, Inc. v. GCP Enterprises, Inc. (30-2016-00889739-CU-PO-CJC) Orange Central Justice – civil – video enhancement – Testimony & Deposition – Defense

03/21/18 US v. Woods & Miller (3:17-CR-00008) – Northern Nevada District Court – criminal – video enhancement – Testimony – Defense

03/16/18 Kathleen Griffin v. Mezger (SMR 000354) – Los Angeles County Superior Court – civil – video authenticity & system design – Testimony – Plaintiff

12/12/17 Jang v Aston Elite Condominium Collection (15-1-1970) – First Circuit Court, State of Hawaii – civil – video authenticity & compression – Deposition – Plaintiff

06/21/17 Deron Holmes v. County of Orange (16-CV-00867-JLS) – Ronald Reagan Federal Building and U.S. Courthouse – civil – video clarification – Deposition – Plaintiff

05/22/17 Vallejo v. Santa Ana Unified School District (30-2015-00823864) – Orange County Superior Court, Santa Ana – civil – video clarification – Deposition – Plaintiff

02/13/17 Wendi Oppenheimer v. The City of La Habra et al. (8:16-cv-00018-JVS-DFM) – Circuit Court Santa Ana, CA – civil – video authenticity – Deposition – Plaintiff

01/26/17 Zeichick v. Garnica (BF056476) – Los Angeles Superior Family court – civil – video authentication & compression – Testimony – Defense

08/22/16 Steven Johnson vs. Stephen Davidson and City of Independence (1416-CV26731) – Circuit Court of Jackson county, MO – civil – video clarification – Deposition – Defense

07/05/16 Opsitnick v City of Long Beach (2:14-CV-09370-PLA) – US Central District civil – video clarification – Deposition – Plaintiff

06/27/16 Zambroro et al v Drobot et al (BC566142) – Los Angeles County Superior civil – audio clarification – Deposition – Plaintiff

04/28/16 Wanda Katz v. CVS Pharmacy (56-2013-00440158) – Ventura County Superior civil – video clarification & compression – Testimony – Plaintiff (03/25/16 Deposition)

10/07/15 Troy Williams v. Ralphs, et al. (BC495977) – Los Angeles County Superior civil – video clarification – Deposition – Plaintiff

05/08/15 Llamas v Twelve Sixteen (39-2013-00305497-CO-PO-STK) – San Joaquin County Superior civil – video clarification – Deposition – Plaintiff

04/03/15 Handgis v. Waterfront Hotel (30-2013-00645003-CU-PO-CJC) – Orange County Superior civil – video clarification – Deposition – Plaintiff

03/23/15 Nevada v. Julian Acox (CR13-0446) – Washoe County Superior criminal – video clarification – Testimony – Defense

11/17/14 Wendy Banderas v AMR (CIVDS1211607) – San Bernardino County Superior civil – video tamper analysis – Testimony 402 – Plaintiff

- 11/10/14 Chapman v CDN Logistics (S-1500-CV-2752580 SPC) – Kern County Superior  
civil – video tamper analysis – Testimony – Plaintiff
- 09/09/14 P. v Kyle McCleary (GA088459) – Los Angeles Superior  
criminal – video clarification – Testimony – Defense
- 06/13/14 Eric Koff v Trek Bicycle Corp (30-2012 00602533) – Orange County Superior  
civil – image enhancement – Testimony – Plaintiff
- 05/28/14 Sanchez v. County of Los Angeles (CV13-03836) – Los Angeles Superior  
civil – image/video clarification – Deposition – Plaintiff
- 02/27/14 P. v David Soto (VA130222-02) – Los Angeles Superior  
criminal – video route reconstruction – Testimony – Defense
- 11/14/13 P. v Sevak Demirjian (LA071817-01) – Los Angeles Superior  
criminal – video clarification – Testimony 402 – Defense
- 10/18/13 A.K.H v City of Tustin (SACV 12-01547 JST) – Costa Mesa, CA  
civil – image enhancement – Deposition – Plaintiff
- 10/11/13 Jerry Newmaker v City of Fortuna (C-12-4675-PJH) – Ventura, CA  
civil – video rebuttal witness – Deposition – Plaintiff
- 08/14/13 P. v David Morrow – Brighton (2011 CR001901) – Colorado Superior  
criminal – video tamper analysis & compression – Testimony – Defense
- 07/19/13 P. v. Jayson Ponce (BA396403) – Los Angeles Superior  
criminal – video clarification – Testimony – Defense
- 03/21/13 Dependency Court in the Matter of JT, minor (BF039110) – Los Angeles Superior  
civil – image authentication – Testimony – Family
- 01/30/13 Sharkoff v. Fletcher Jones Motorcars (BC462105) – Los Angeles Superior  
civil – video tamper analysis – Testimony – Defense

**Published Writings (partial list)**

- 04/06/22 eForensics Magazine – "The Benefits and Risks of Artificial Intelligence as Legal Evidence"
- 02/26/21 eForensics Magazine – "Multimedia Authentication testing - How to detect and document a forgery"
- 07/01/20 eForensics Magazine – Digital Forensics toolkit "VideoCleaner tutorial and case study"
- 02/01/19 eForensics Magazine – "Digital Forensics and the Law"
- 05/10/18 eForensics Magazine – "Mastering the Daubert Challenge"
- 09/02/17 Memory Malware Forensics – Vol.6 #8, Issue 06/2017, (73) August, ISSN 2300-6986  
"Detecting image tampering through science"
- 08/08/16 The California Identification Digest –  
"Image, Video, And Audio Enhancement Software Available For The Forensic Analyst"
- 02/14/15 The Champion – "Evidence Forensics - Exposing tampered recordings"
- 05/26/14 Forensic Focus Magazine – "Considering A Career in Audio-Video Forensics?"
- 12/10/13 eForensics Magazine – "How to extract clear facts from bad video"  
Republished: Multimedia Forensics Guidebook, Vol06, #11, Issue 11/2017, (76) November ISSN#2300-6986
- 08/01/13 eForensics Magazine – "Detect and prevent file tampering in multimedia files"  
Republished: Multimedia Forensics Guidebook, Vol06, #11, Issue 11/2017, (76) November ISSN#2300-6986
- 01/07/13 The Litigators Companion – "Don't Let Distorted Media Ruin Your Case"
- 05/29/12 The Jury Expert - "Turning an Expert Witness into a Great Witness"
- 04/13/12 Homeland Security News Wire – "The technology behind the Zimmerman arrest video"
- 02/01/12 Exhibit One – "Video deblur"

**Lecturer – Forensic (partial list)**

- 10/26/22 SAFE (Scientific Association of Forensic Examiners) – Webinar  
"Validating digital signatures"
- 09/14/21 IADE (International Association of Document Examiners) – Webinar  
"Authenticating signatures in PDF documents"
- 02/24/21 SAFE (Scientific Association of Forensic Examiners) – Webinar  
"Authenticating signatures in PDF documents"
- 06/18/20 IADE (International Association of Document Examiners) – Webinar  
"Tampered documents in a digital world"
- Various Scientific Association of Forensic Examiners – Webinar  
02/24/20 "Digital Document Authentication – PDF compression and noise artifacts"  
06/26/19 "Digital Document Authentication – The DNA of digital recordings"

- 08/25/17 "Solving the Amelia Earhart mystery"
- 07/29/16 "The expert witness – Ethics, preparation and challenges"
- 05/05/16 California State Division, International Association for Identification – Annual Conference  
"Video Retrieval and Capture" & "Solving Cases with Video Enhancement"
- 08/07/15 Digital Forensic Summit – Annual Conference (3 lectures)  
Forensic Video Enhancement Panel - "Forensic Filters" (functionality, usage, settings and sequence)  
Forensic Video Authenticity Panel - "Using light, shadows and compression artifacts to detect tampering"  
"Meta-Data Recovery Audio/Video" (Validate & authenticate through metadata examination)
- 05/08/14 American College of Forensic Examiners Institute – Annual Executive Summit  
"The Science and Open-Source Innovations of Video Enhancement and Analysis"
- 10/07/13 International Conference on Forensic Research & Technology – Workshop chair  
Keynote speaker – "Audio-Video-Image Forensics: Turning Science Fiction into Science Reality"
- 05/01/13 California State Division, International Association for Identification (repeat on 05/02/13)  
"Audio And Video Forensics-Clarification vs Enhancement"
- 05/08/12 California State Division, International Association for Identification – "Converting bad recordings into clear evidence: The science behind audio, video, image enhancements and authentication"

**Lecturer – Legal (partial list)**

- 04/05/19 National Association of Criminal Defense Lawyers: annual forensic science conference  
"Is your discovery lying to you? The DNA of recorded evidence"
- 06/25/16 CAPA: Annual Conference – "The expert witness - Ethics, preparation and challenges"
- 05/20/16 NACDL: Forensic Science & the Law – "Digital Evidence: Spoliation & Tampering"
- 03/04/16 California Department of Corrections and Rehabilitation  
"Incident to Resolution Video Handling-Enhancement-Legalities"
- 02/10/16 Orange County Paralegal Association – "The Expert Witness - Ethics, Preparation and Challenges"
- 10/15/15 Association for Legal Professionals – "Winning cases with digital forensics"
- 10/01/15 San Gabriel Valley Legal Secretaries – "Winning cases with digital forensics"
- 05/17/14 National Association of Criminal Defense Lawyers: annual forensic science conference  
"Forensics for the Defense: 20 Ways to Win Using Enhancement and Authentication Science"
- 05/07/14 Consumer Attorneys Association of Los Angeles  
"Winning Your Case in the Digital Age with the Use of Enhanced Forensic Evidence"
- 04/05/13 National Association of Criminal Defense Lawyers: annual forensic science conference  
"Audio-Video Enhancement, Detecting Altered Files, and Excluding Media Experts and Exhibits"
- 07/30/13 San Diego Criminal Defense Bar Association – "Criminal Forensics - Visual enhancements and authentication to win cases and exclude opposing exhibits"
- 05/23/13 Beverly Hills Bar Association – "Criminal Forensics - Removing the Magic and Mystery Behind Audio, Video and Image Enhancements and Authentication"
- 07/24/12 South Bay Bar Association – "Audio - Video Enhancement and Authentication"
- 06/27/12 South East District Bar Association – "Converting Bad Recordings into Clear Evidence..."
- 06/14/12 Beverly Hills Bar Association – "Converting Bad Recordings into Clear Evidence..."
- 06/13/12 Burbank Bar Association – "Converting bad recordings into clear evidence..."
- 06/12/12 Ventura County Bar Association – "Converting Bad Recordings into Clear Evidence: The Science behind audio, video and Image enhancements and authentication"
- 05/24/12 San Fernando Valley Bar Association – "Determining if your audio-video surveillance files have been altered. How audio-video files are enhanced and authenticate..."

**Lecturer – Investigative (partial list)**

- 11/09/18 Private Investigators of California – "Make Money with Audio & Video Enhancement"
- 08/24/17 Hague Webinar – "Video enhancement best practices and software to catch terrorists"
- 04/27/16 CPCA police Webinar – "VideoCleaner: Solve Crimes with a FREE Video Processing App"
- 03/30/16 Phoenix Police Department – "VideoCleaner: Forensic Video Enhancement Software training"
- 02/18/16 Training session (hosted by Private Investigators of California - Los Angeles  
"Digital forensics - Video enhancement and stabilization" (VideoCleaner free open-source software)
- 06/17/15 ASIS-40 (repeat of ASIS-130 on 4/9/15) – "Evidence Forensics - Exposing tampered recordings"
- 11/08/14 Private Investigators of California – "Audio & Video Enhancement"
- 06/12/14 ASIS-130 (American Society for Industrial Security) – "Video Enhancement Capabilities, Tools and Secrets"
- 02/05/14 LAPD (Valley Bureau) All Commanding Officers meeting
- 09/25/13 Private Investigators of California – "Investigative Forensics: Turning science fiction into reality"
- 02/08/12 LAPD (Valley Bureau) All Commanding Officers meeting