

# Curriculum Vitae – Doug Carner AVFA,CFHI,CCFE,CPP

## Audio – Video Forensic Analyst

### **Certifications** (all listings required training, testing and board/peer review)

10/05/18 certified Audio Video Forensic Analyst (Electronic Technicians Association)  
11/29/17 Certified Forensic HiTech Investigator (McAfee Institute)  
01/04/16 Certified Computer Forensics Examiner (Information Assurance Certification Review Board)  
12/17/07 Certified Protection Professional (American Society for Industrial Security)

### **Forensic Positions** (current list)

Audio, Video & Photo Analysis expert (Los Angeles Superior Court Panel of Experts - ICDA)  
Chair: Forensic Working Group (American Society for Photogrammetry and Remote Sensing)  
Digital and Multimedia Evidence subcommittee (American Society for Testing and Materials)  
Owner: "Forensic - Audio Video Innovations and Solutions" (6,000+ members, LinkedIn id#2461639)

### **Industry Positions** (current list)

Manager: "Electronic Discovery Professionals" (9,000+ members, LinkedIn group id# 60739)  
Manager: "Law Enforcement Professionals..." (15,000+ members, LinkedIn group id#44211)

### **Forensic Memberships** (current list)

American Academy of Forensic Sciences, Forensic Expert Witness Association (served 2016 LA Executive Board), International Association for Identification (National sustaining member. California State Division member & served 2015-2016 "Science and Practices" committee), International Association of Forensic & Security Metrology, Scientific Association of Forensic Examiners

### **Industry Memberships** (current list)

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

### **Forensic Innovations** (peer-reviewed)

VideoCleaner forensic image & video enhancement and authentication software (lead programmer)  
Video Error Level Analysis video tamper detection and RGBamplifier motion detection filters/methods

### **Other Innovations** (partial list)

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

### **Development Contributor** (partial list)

AVFA – Accredited peer-reviewed forensic multimedia certification (lead exam & guide contributor)  
Blurity – Blurity.com (Forensic blind deconvolution image focus-motion corrective software)  
Forensics – DiamondCut.com (Forensic audio enhancement and authentication software)  
MAT (Multimedia Authentication Testing) – Forensic Working Group (digital file testing form)  
VideoExpert – Vocord (Forensic video enhancement and authentication software)

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

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  
(compression, color space, resolution, transmission, settings, lenses, integrity, security, metadata)

## **Clients**

Caseload demographics are approximately 40% plaintiff and 60% defense. My client list includes law firms, law enforcement, public defense, governments, corporations and enhancement companies.

## **Background**

Current: President of Forensic Protection, Inc. (5632 Van Nuys Blvd, Dept #600, 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** (11 of 17 Testimony for Defense, 14 of 17 Depositions for Plaintiff)

- 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)**

- 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"
- 06/01/11 Security Dealer (Securityinfowatch) – "Improving surveillance with video enhancement"

10/06/10 California Association of Licensed Investigators – Journal Article –  
“Forensic Enhancement – Increase safety, expose the truth, reduce costs and prove your case”

**Lecturer – Forensic (partial list)**

- 08/25/17 Scientific Association of Forensic Examiners – Webinar  
"Solving the Amelia Earhart mystery"
- 07/29/16 Scientific Association of Forensic Examiners – Webinar  
"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”
- 05/17/11 California State Division, International Association for Identification

**Lecturer – Legal (partial list)**

- 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...”
- 06/09/11 California Public Defenders Association – “Winning your case with audio and video enhancement”
- 04/28/11 National Defender Investigator Association – “Video and Audio Forensics: Winning your case...”

- 04/12/11 Legal Professionals Association – “Winning your case with audio and video enhancement”
- 11/13/10 Legal Secretaries Incorporated – “Increase safety, expose the truth, reduce costs and win litigation”

**Lecturer – Investigative** (partial list)

- 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
- 12/10/11 Professional Investigators of California
- 07/14/11 Professional Investigators of California
- 05/26/11 California Association of Licensed Investigators - Central Coast District Meeting
- 02/08/11 American Society for Industrial Security  
“What to know before your buy or upgrade your electronic physical security
- 07/08/10 American Society for Industrial Security  
Video and audio enhancement that converts existing security equipment into high resolution”
- 03/24/10 Professional Investigators of California

**Media** (partial list)

- 07/24/17 PEOPLE (print magazine) – “Has Amelia Earhart’s Disappearance Been Solved?”
- 07/18/17 San Francisco Chronicle – “Many BART trains equipped with cameras with '70s technology”
- 07/09/17 History (Television Channel) – “Amelia Earhart: The Lost Evidence”
- 07/05/17 People Magazine – “Does This Photo Prove Amelia Earhart Survived Her Final Flight?”
- 10/28/16 Crime Watch Daily with Chris Hansen – Shelby Thornburgh murder
- 01/22/16 CBS News – “Boyle Heights Church Donations Stolen From 80-Year-Old Parishioner”
- 07/16/15 PI's Declassified – VoiceAmerica radio – “Exposing tampered recordings and video enhancement”
- 06/20/15 Crime and Science Radio – “My Lying Eyes: Tampered Evidence and Industry Secrets”
- 02/10/14 Security Guy Radio (Adrenaline radio) – “CSI Audio, video & images enhancement”
- 04/02/12 KFI am 640 radio interview (George Zimmerman case)
- 04/02/12 ABC News blog – “Video Forensic Expert Who Cleaned up George Zimmerman Video”
- 04/02/12 Nightline, Good Morning America, and worldwide rebroadcast –  
“George Zimmerman Video Shows Little Evidence of a Broken Nose”
- 02/02/12 PI's Declassified - VoiceAmerica radio – “Audio & Video: Budget Conscious Evidence”
- 11/03/11 Expert on the Dr. Phil Television show – “Affairs, Lies and Audiotape”
- 03/21/11 CBS News (Mathew Clark) – “New Video Unveiled in Alleged Police Beating of Grad Students”
- 10/21/10 PI's Declassified - VoiceAmerica radio – “Audio & Video Enhancement: Myths, Facts & Benefits”