

# Curriculum Vitae – Doug Carner CCFE, CPP

## Audio – Video Forensic Analyst

Criminal and civil audio-video-image clarification, enhancement and authentication expert, innovator and educator. I have processed evidence in thousands of cases, exposing facts, persuading juries, exonerating the innocent, identifying the guilty, and rebutting junk science and methods.

## Board Certifications & Positions

Audio, Video & Photo Analysis expert (Los Angeles Superior Court Panel of Experts - ICDA)  
Certified Computer Forensics Examiner (Information Assurance Certification Review Board)  
Certified Protection Professional (American Society for Industrial Security)  
Digital and Multimedia Evidence subcommittee (American Society for Testing and Materials)  
Forensic Group member (American Society for Photogrammetry and Remote Sensing)

## On-line Positions

Owner: "Forensic - Audio Video Innovations and Solutions" (6,000+ members, LinkedIn id#2461639)  
Manager: "Law Enforcement Professionals..." (15,000+ members, LinkedIn group id#44211)  
Manager: "Electronic Discovery Professionals" (9,000+ members, LinkedIn group id# 60739)

## Membership

Scientific Association of Forensic Examiners, Audio Engineering Society, International Public Safety Association, Forensic Expert Witness Association (served on 2016 Los Angeles Executive Board), International Association for Identification (National sustaining member. California State Division member and served on 2015-2016 CSDIAI Science & Practices committee)

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

09/18/17 Digital Video Forensics (eForensics Magazine, 25 CEU)  
01/04/16 Certified Computer Forensics Examiner (IACRB)  
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

## Innovations (partial list)

VideoCleaner forensic video enhancement and authentication software (lead programmer)  
Video Error Level Analysis video tamper detection and RGBamplifier motion detection filters/methods  
Invented several security cameras, "Pay-at-the-gate" kiosk, and a wireless alarm (patent#6400267)

## Development Contributor (partial list)

Forensic (ver 8 and 10) – DiamondCut.com (Forensic audio enhancement & authentication software)  
Blurity – Blurity.com (Forensic blind deconvolution image focus-motion corrective software)

**Testimony & Depositions** (8 of 13 Testimony for Defense, 12 of 13 Depositions for 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 - 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 - 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 - 402 hearing - 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 with 402 hearing - 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 - 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

## **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

## **Clients**

Caseload demographics are approximately 40% plaintiff and 60% defense. My client list includes:  
Law firms (Wicker Smith, Shouse, etc), corporations (Kroger, Disney, RiteAid, etc), law enforcement  
(DA, Police, Sheriff, CHP, etc), defense (Federal Defender, Public Defense, innocence project, etc),  
private attorneys, governments, and enhancement companies.

I routinely donate my skills to aid law enforcement and innocence projects, and discount my fee for  
court funded indigent clients. Upon work completion, communications age into deletion and files are  
returned or destroyed. My statements, opinions and conclusions are based solely upon the evidence  
in accordance with professional standards, regardless of the hiring party's preferred outcome.

## **Published Writings (partial list)**

- 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"
- 08/01/13 eForensics Magazine – "Detect and prevent file tampering in multimedia files"
- 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”