

## **Biography**

**Jim Hoerricks, PhD AVFA Pn1**, is a Certified Audio/Video Forensic Analyst (AVFA), is the author of the best-selling book *Forensic Photoshop* (available on Amazon.com), is a co-author of *Best Practices for the Retrieval of Video Evidence from Digital CCTV Systems (DCCTV Guide)*, published by the Combating Terrorism Technical Support Office (CTTSO), is retired from police service where his unit (LAPD's Electronics Unit) was responsible for the collection and analysis of multimedia evidence (audio, video, images, and metadata from digital CCTV systems and mobile devices), and currently serves the Organization of Scientific Area Committees on Forensic Science (OSAC) as the Video / Image Technology and Analysis (VITAL), Video Task Group lead.

In this pdf binder, you'll will find a CV as well as lists of testimony, training created and presented, and training received.

# Jim Hoerricks, PhD

jim@hoerricks.com

818-659-5546

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## Forensic Scientist - Certified Audio Video Forensic Analyst

Industry leader, innovator, and seasoned forensic science specialist with 18+ years of experience in evidence collection, restoration, forensic analysis, authentication, and presentation, offering expertise in Surveillance and Counter-Surveillance execution, training, and supervision. Successful instructor, consultant, author, presenter, and instructional designer, knowledgeable in the latest technology and applicable laws. Academic degrees: Ph.D. in Education, MEdID, MOL, and BOL.

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### Core Competencies:

- Digital / Multimedia Forensics
  - System Engineering
  - Penetration Testing / Urban ISR
  - Physical Security / Infrastructure Protection
  - Organizational Administration / Supervision
  - Scientific Research / Institutional Review
  - Standards Creation / Compliance
  - International Accreditation
  - Large Project Management / Consulting
  - Adult Education / Vocational Training
  - Instructional / Curriculum Design
  - Self Defense Without Weapons
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### Accomplishments in Action:

**Senior Consultant**, Apex Partners, Ltd., Las Vegas, NV 2018-Present  
Audio / Video Forensic Analysis, Case Review, Expert Testimony,  
Instructor, Presenter, & Instructional Designer.

**Self-Employed**, based in US and Estonia 2001-Present  
Forensic Analyst, Photographer, Author, Adjunct Instructor / Professor.

**Director of Education / Research, Towcester Abbey Praeceptory** 2015 - Present  
IRB Supervisor, Coordinator of Vocational Rehabilitation Programs,  
Researcher, Instructor, Presenter, & Instructional Designer.

**Director of Support and Training**, Amped Software, Inc., Henderson, NV. 2016 - 2019  
Coordinate Support and Training Efforts, Forensic Analysis, Case Review,  
Expert Testimony, Instructor, Presenter, & Instructional Designer.

**Police Surveillance Specialist / Senior Forensic Multimedia Analyst**, 2001-2016  
Los Angeles Police Department, Los Angeles, CA.  
Handled thousands of cases for the LAPD and on loan to agencies  
around the world. Master low-power electrician skilled in the fabrication,  
installation, and operation of miniature surveillance gear. Urban  
Intelligence / Surveillance / Reconnaissance (ISR) covert operations.

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## Areas of Specialization:

Forensic Analysis of Audio / Image / Video Based Evidence, Restoration, Clarification, Photogrammetry, Comparison Analysis, Content Analysis, Authentication, the processing and analysis of the digital crime scene and it's evidence, Penetration Testing, Statistics, Forensic Science, Standards and Compliance, Curriculum Design, Research, Training, and Education.

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## Research and Development:

- Adobe Systems, Inc., Beta Tester for Adobe Photoshop and Acrobat Pro.
  - Amped Software, Inc., Alpha and Beta Tester for entire product line.
  - Ocean Systems, Inc., Beta Tester for Archive-R & Omnivore.
  - Salient Stills, Inc. (now Salient Sciences, Inc.), Beta Tester for VideoFocus 3.
  - Sanyo / Fisher North America Corp., Beta Tester for Case Information Media Management (CIMM).
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## Education:

- A.S., Political Science, Santa Rosa Junior College, Santa Rosa, CA 1992
  - B.A., Organizational Leadership, Woodbury University, Burbank, CA 2009
  - M.A., Organizational Leadership, Woodbury University, Burbank, CA 2010
  - Ph.D., Education - Higher Education Leadership, Trident University, Cypress, CA 2018
  - M.Ed, Instructional Design, Western Governors University, Salt Lake City, UT 2019
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## Professional Affiliations:

- Organization of Scientific Area Committees on Forensic Science (NIST / OSAC)
  - ASTM International, E30 Participating Member
  - Chartered Society of Forensic Science (UK), Affiliate Member: Forensic Imagery Analysis Division
  - ETA International
  - International Law Enforcement Educators and Trainers Association, Member
  - International Association for Continuing Education and Training
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## Licenses and Certifications:

- Certified Audio Video Forensic Analyst (AVFA)
- General Radiotelephone Operator License (FCC)
- Mobile Phone Seizure Certification (BKForensics)
- Certified Mobilyze Operator (BlackBag)
- Large Emergency Event Digital Information Repository (LEEDIR)
- Amped Certified Analyst (FIVE / Authenticate)
- Amped Certified Instructor (FIVE / Authenticate)
- edX: Course Creator
- Camtasia 2019 Certification

# Jim Hoerricks, Ph.D.

jim@hoerricks.com

Las Vegas, NV 89139

## Full Legal Name

Kenneth James Hoerricks

*Preferred name: Jim*

## Testimonial Record

While the cases below represent those that have gone to trial, I have provided analysis and assistance in well over a thousand cases since 2001. Working both for the government and in private practice, I've provided expertise in general processing and format conversion, restoration / clarification / enhancement, photogrammetry, content analysis, comparison analysis, authentication.

## Expert Testimony

- People v. Carpenter (3CR13501)  
Los Angeles County Superior Court, April 2004 (Testimonial Class: digital / multimedia forensic analysis (aka forensic video analysis or digital visual media forensics). Work type: Video Clarification)
- People v. Cruz (4CR06272)  
Los Angeles County Superior Court, April 2004 (Testimonial Class: digital / multimedia forensic analysis (aka forensic video analysis or digital visual media forensics). Work type: Video Clarification)
- People v. Casey (PA049315)  
Los Angeles County Superior Court, January 2005 (Testimonial Class: digital / multimedia forensic analysis (aka forensic video analysis or digital visual media forensics). Work type: Video Clarification)
- People v. Garcia (62-55517)  
Sacramento County Superior Court, October 2006 (Testimonial Class: digital / multimedia forensic analysis (aka forensic video analysis or digital visual media forensics). Work type: Video Clarification & Content Analysis)
- People v. Abdullah (BA353334)  
Los Angeles County Superior Court, December 2009 (Testimonial Class: digital / multimedia forensic analysis (aka forensic video analysis or digital visual media forensics). Work type: Video Authentication)
- People v. Kemp (BA387506)  
Los Angeles County Superior Court, May 2014 (Testimonial Class: digital / multimedia forensic analysis (aka forensic video analysis or digital visual media forensics). Work type: Video Clarification & Content Analysis)
- NV vs. Stewart (C-16-315677-3)  
Clark County District Court, August 2017 (Testimonial Class: digital / multimedia forensic analysis (aka forensic video analysis or digital visual media forensics). Work type: Video Clarification & Content Analysis)
- US v Wells (3:13-cr-00008-SLG) US Federal Court, District of Alaska, October 2019 (Testimonial Class: digital / multimedia forensic analysis (aka forensic video analysis or digital visual media forensics). Work type: Forensic Video Analysis, Photogrammetry, Vehicle Make / Model Determination, Photographic Comparison, and industry best practices)
- Swain v. Gafford Eighth Judicial District Court, Clark County, NV. February 2020 (Testimonial Class: digital / multimedia forensic analysis (aka forensic video analysis or digital visual media forensics). Work type: Audio / Video Authentication)

## General Testimony

People v. Vann (BA351183) Los Angeles County Superior Court, March 2010

Testified as to my involvement in a digital multimedia evidence retrieval

People v. Childress (BA356413) Los Angeles County Superior Court, November 2011

Testified as to my downloading of a mobile phone's contents

People v. Nunez-Sharp / Lopez (BA397214) Los Angeles County Superior Court, March 2015

Testified as to my involvement in a digital multimedia evidence retrieval

People v. Palmer (BA356413) Los Angeles County Superior Court, October 2019

Testified as to my downloading of the contents of several mobile phones

*www.hoerricks.com*

# **Jim Hoerricks, Ph.D.**

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## **Full Legal Name**

Kenneth James Hoerricks

*Preferred name: Jim*

## **Declarations**

In re Carol Ann Worthman (A032096) Los Angeles County Superior Court, April 2008

Declaration in support of the need for original documents for authentication purposes

Hor vs City of Seattle (10-2-34403-9SEA) King County Superior Court, October 2012

Declaration as to forensic audio analysis work performed to identify speakers and sirens in audio recording

People v Payton (2010-002-126) Ventura County Superior Court, March 2012

Declaration as to image authentication work performed, authentication of digital images.

People v Goodlow (BA422433) Los Angeles County Superior Court, November 2014

Declaration as to review of opposing expert's work in facial imaging.

Swain v Gafford (2020) Eighth Judicial District Court, Clark County, NV, January 2020

Declaration as to results of preliminary authenticity examination of audio / video content within an official courtroom recording.

## **Hearings**

Az. v. Awad (CR-2017-1727) Mohave County Superior Court, August 2018

Daubert Hearing on Image Authentication

US v Wells (3:13-cr-00008-SLG) US Federal Court, District of Alaska, July 2019 (Daubert Hearing on Forensic Video

Analysis, Photogrammetry, Vehicle Make / Model Determination, Photographic Comparison, and industry best practices.

NH. v. Ellison (217-2018-CR-1048) Merrimack County Superior Court, March 2020

Daubert Hearing on Reverse Projection, Photogrammetry, Photographic Comparison, Vehicle Make / Model Determination, and industry best practices.

## **Depositions**

NH v Richard Ellison (217-2018-CR-1048) Merrimack Superior Court (remote), January 2020

Pre-Daubert Hearing deposition on Photogrammetry, Reverse Projection Photogrammetry, Photographic Comparison, Vehicle Make / Model Determination, and Standards / Practices.

# Jim Hoerricks, Ph.D.

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Las Vegas, NV 89139

*... a lifetime spent helping things go right ...*

## Major Publications

Best Practices for the Retrieval of Video Evidence from Digital CCTV Systems (DCCTV Guide). 2006 (co-author). CTTSO.  
Forensic Photoshop. 2008. Blurb. San Francisco  
The Forensic Video and Image Analysis Blog. 2007-2015

## Journal Articles

Journal of Forensic Identification:

re: Lack of Enforcement of Standards as Regards the Testing of Human Subjects (69 (1), 2019 | 1)  
re: A Comparison of Reverse Projection and Laser Scanning Photogrammetry (69 (1), 2019 | 1)

Chartered Society of Forensic Science (UK)

Statistics for Digital / Multimedia Forensic Analysts (August, 2019)

eForensics Magazine

Statistics for Forensic Analysts (June, 2019)

A Quantitative Comparison of Common Interpolation Methods - a study investigating common interpolation methods used in digital / multimedia forensic analysts (July, 2019)

Ground Truth – the missing link in digital/multimedia forensic science (January, 2020)

The subjectivity of consistency, an overview of manual facial photographic comparison in forensic science (March, 2020)

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## Relevant College Courses

- SP 10 - Public Speaking  
Long Beach City College
- PSYCH 1 - Introduction to Psychology  
Long Beach City College
- ANTHRO 101 - Human Biological Evolution  
Los Angeles Pierce College
- ANTHRO 150a - Current Topics in Anthropology (Anthropology Lab)  
Los Angeles Pierce College
- ASTRO 3 - Stellar Astronomy  
Santa Rosa Junior College (with Lab)
- MATH 156 - Advanced Algebra  
Santa Rosa Junior College
- OL309 - Organizational Psychology  
Woodbury University
- OL312 - Quantitative Methods 1  
Woodbury University
- OL312 - Quantitative Methods 2  
Woodbury University
- OL501 - Psychology of Organizations  
Woodbury University
- OL502 - Ethics in Organizations  
Woodbury University
- OL508 - Quantitative Analysis  
Woodbury University
- DEL608 - Quantitative Research and Advanced Statistics I  
Trident University International
- DEL610 - Qualitative Research  
Trident University International
- DEL618 - Quantitative Research and Advanced Statistics II  
Trident University International
- DEL620 - Linking Theory with Research  
Trident University International
- C224 - Research Foundations  
Western Governors University
- C225 - Research Questions and Literature  
Western Governors University
- C226 - Research Design and Analysis  
Western Governors University
- JRT2 - Evaluation Methodology and Instrumentation  
Western Governors University
- JST2 - Evaluation Process and Recommendations  
Western Governors University
- MEC1 - Foundations of Measurement and Evaluation  
Western Governors University

## **Specialized Training Received**

### **Forensic Video Analysis and the Law**

Law Enforcement / Emergency Services Video Association, Whittier, CA, June 2002, 40 Hours

### **Audio and Video Enhancement and Clarification**

National Law Enforcement and Corrections Technology Center, El Segundo, CA, April 2002, 20 Hours

### **Best Practices for the Collection of Video Tape Evidence**

National Law Enforcement and Corrections Technology Center, El Segundo, CA, April 2002, 4 Hours

### **dTective Video Evidence and Case Management System**

OceanSystems, Burtonsville, MD, February 2004, 16 Hours

### **Electronic and Technical Surveillance Training**

National Technical Investigator's Association, Austin, TX, July 2004, 40 Hours

### **Electronic Surveillance (Wiretap)**

California Department of Justice Advanced Training Center, Los Angeles, CA, January 2004, 8 Hours

### **International Security Conference Expo Seminars**

ISC Expo/West, Las Vegas, NV, March 2002, 24 Hours

### **Navigating Closed Circuit Television Systems**

Pelco Video Security Institute, Clovis, CA, April 2002, 16 Hours

### **Designing Video Security Systems**

Pelco Video Security Institute, Clovis, CA, September 2002, 16 Hours

### **Digital CCTV Solutions**

Pelco Video Security Institute, Clovis, CA, April 2002, 16 Hours

### **Networking Basics for Pelco CCTV Products**

Pelco Video Security Institute, Clovis, CA, April 2002, 8 Hours

### **Mastering Photoshop**

MindLeaders, Los Angeles, CA, May 2002, 12 Hours

### **Cisco CCDA Internetworking Review**

MindLeaders, Los Angeles, CA, May 2002, 8 Hours

### **Cisco CCNA OSI Reference Model**

MindLeaders, Los Angeles, CA, May 2002, 8 Hours

### **Covert Video and Audio Recording Devices**

Adaptive Digital Systems, Los Angeles, CA, November 2001, 4 Hours

### **Microsoft Transact SQL**

LAPD Training Division/Virtual Training Company, August 2005, 8 Hours

### **Adobe Photoshop Training Camp Live**

Software Cinema, Los Angeles, CA, January 2006, 8 Hours

### **Adobe Photoshop CS2 Layer Techniques**

KW Computer Training, Los Angeles, CA, March 2006, 2 Hours

### **Electronic and Technical Surveillance Training**

National Technical Investigator's Association, Sacramento, CA, July 2006, 34 Hours

### **Case Studies in Forensic Video Analysis - Intergraph Corp - Unilux, Ltd - U.S. Army**

National Technical Investigator's Association, Sacramento, CA, July 2006, 2 Hours

### **Investigative and Technical Response to the London Bombings of July 2005 - Metropolitan Police, London, UK**

National Technical Investigator's Association, Sacramento, CA, July 2006, 4 Hours

### **Effective Courtroom Testimony**

Los Angeles District Attorney's Office, Los Angeles, CA, September 2006, 4 Hours

### **Instructor Development Course**

Los Angeles Police Department, Training Division, Los Angeles, CA, January 2007, 64 Hours

### **Photoshop for Forensic Video Analysts**

Resolution Video, Santa Fe Springs, CA, March 2007, 32 Hours

### **Forensic Analysis of Handheld GPS Devices**

USCG / NATIA Mid-States Chapter, Indianapolis, In., April 2007, 2 Hours

### **Forensic Analysis of Cellular Telephones**

Purdue Univ. / NATIA Mid-States Chapter, Indianapolis, In., April 2007, 4 Hours

### **Microsoft e-Learning - microsoft.com - May 2007**

Course 4622: What's New in Microsoft Office Access 2007

Course 4623: What's New in Microsoft Office Excel 2007

Course 4624: What's New in Microsoft Office InfoPath 2007

Course 4625: What's New in Microsoft Office OneNote 2007

Course 4627: What's New in Microsoft Office PowerPoint 2007

Clinic 5046: Inside Look at Building and Developing Solutions with Microsoft Office SharePoint Server 2007



Adobe Creative Suite 3 New Feature Training  
Art Center College of Design, Pasadena, CA, June 2007, 8 Hours

Shooting with the Hasselblad V System Medium Format Camera & Hasselblad Digital Back  
Hasselblad USA / Art Center College of Design, Pasadena, CA, July 2007, 6 Hours

Using Hasselblad's Flexcolor 4.7, July 2007  
Hasselblad USA / Art Center College of Design, Pasadena, CA, July 2007, 6 Hours

Electronic and Technical Surveillance Training  
National Technical Investigator's Association, Pittsburgh, PA, July 2007, 24 Hours

Forensic Audio and Video in the 21st Century  
National Technical Investigator's Association, Pittsburgh, PA, July 2007, 2 Hours

Fundamental Imaging Processing  
National Technical Investigator's Association, Pittsburgh, PA, July 2007, 4 Hours

New Features in Adobe's Creative Suite 3 for Forensic Video Analysts  
National Technical Investigator's Association, Pittsburgh, PA, July 2007, 2 Hours

Introduction to Computer Forensics  
National Technical Investigator's Association, Pittsburgh, PA, July 2007, 2 Hours

Understanding Screen Capture  
National Technical Investigator's Association, Pittsburgh, PA, July 2007, 2 Hours

CCTV Replay Using Clearview's DigiMux  
National Technical Investigator's Association, Pittsburgh, PA, July 2007, 2 Hours

Digital Video Recorder Screen Captures Using StarWitness by Signalscape  
National Technical Investigator's Association, Pittsburgh, PA, July 2007, 2 Hours

Essentials of the AV Industry  
InfoComm International, Los Angeles, CA, May 2008, 40 Hours

Adobe Premiere CS3 for Law Enforcement  
Adobe, Inc., San Jose, CA, July 2008, 3 Hours

Adobe Captivate 3 for Law Enforcement  
Adobe, Inc., San Jose, CA, July 2008, 2 Hours

Adobe Lightroom 2 for Law Enforcement  
Adobe, Inc., San Jose, CA, July 2008, 3 Hours

Videotape Authentication by Characteristic Switch Points  
TREC / National Technical Investigator's Association, San Jose, July 2008, 2 Hours

Adobe Photoshop for Photographers  
Hewlett Packard, Los Angeles, CA, July 2008, 8 Hours

Technical Writing  
Los Angeles Police Dept. Training Division, Los Angeles, CA, April 2009, 16 Hours

Adobe Soundbooth CS4  
Total Training, Los Angeles, CA, April 2009, 6 Hours

Adobe Camera Raw 5  
VTC, Los Angeles, CA, May 2009, 3 Hours

Digital Image Enhancement of Latent Prints Using DCS-4  
Foster+Freeman, Los Angeles, CA, May 2009, 16 Hours

Processing of Forensic Evidence  
NCSU Materials Science & Engineering Dept., Los Angeles, CA, January 2010, 1 Hour

Using Flash Retriever Forensic Edition  
Infinidyne, Las Vegas, NV, August 2010, 3 Hours

Super Resolution Fundamentals  
MotionDSP, Las Vegas, NV, August 2010, 1 Hour

Parallel Computer Architectures for Forensic Image/Video Processing  
Cognitec, Las Vegas, August 2010, 1 Hour

FBI's Non-Traditional Video Delivery Method  
LEVA Conference, Indianapolis, IN., November 2010, 1 Hour

Adobe: Delivering on the Workflow (Production Premium CS5)  
LEVA Conference, Indianapolis, IN., November 2010, 3 Hours

Understanding Compression  
Digital Summit International, Las Vegas, NV, August 2011, 1 Hour

Authentication  
Digital Summit International, Las Vegas, NV, August 2011, 1 Hour

Mass Processing of Digital Multimedia Evidence  
LEVA/University of Indianapolis, Indianapolis, In, October 2011, 40 Hours

Trial Preparation and Courtroom Presentation  
LEVA Conference, Coeur d'Alene, Id., October 2011, 2 Hours

Digital Interview Rooms  
LEVA Conference, Coeur d'Alene, Id., October 2011, 4 Hours

Forensic Video and Digital Multimedia Standards  
LEVA Conference, Coeur d'Alene, Id., October 2011, 4 Hours

Advanced Forensic Multimedia Analysis with Amped FIVE Professional  
Amped Software NA, Oceanside, Ca., July 2012, 16 hours

Advanced Image Authentication with Amped Authenticate  
Amped Software NA, Oceanside, Ca., July 2012, 16 hours

Advanced Video Triage with Amped VideoScanner  
Amped Software NA, Oceanside, Ca., July 2012, 8 hours

Digital Video Processing and Analysis Workflow  
LEVA Conference, Asheville, NC, September 2013, 4 Hours

Strategies for Working with Students with Autism Spectrum Disorders  
Region XII Education Service Center, Austin, Tx, February 2014, 61 Hours

Shooting Incident Reconstruction  
Shooters Edge, Los Angeles, Ca, November 2014, 8 Hours

Visual Perception and the Brain  
Duke University (via Coursera), January-March 2015, 32 Hours

Basics of Pistol Shooting  
National Rifle Association (on-line), July 2016, 12 hours

Fundamentals of Digital Image and Video Processing  
Northwestern University (via Coursera), August-October 2016, 48 Hours

Minimizing Bias in Forensic Decision Making  
Concept Professional Training, May 2017, 10 hours

Mobilyze Tool Training Course  
BlackBag Technologies, July 2017, 2 hours

Advanced Forensic Multimedia Analysis with Amped FIVE Professional  
Amped Software, Inc., Las Vegas, NV., July 2018, 16 hours

Advanced Image Authentication with Amped Authenticate  
Amped Software, Inc., Las Vegas, NV., July 2018, 16 hours

Preparing for DEAC Accreditation  
Distance Education Accrediting Commission, August 2018, 4 hours

Augmentative and Alternative Communication and the Autism Spectrum  
Region XII Education Service Center, Austin, Tx, August 2018, 3 Hours

edX - Course Creator (edX 101, edX Blended Learning, edX VideoX, edX Studio X)  
edX, September 2018, 16 hours

Camtasia 2019 Certification  
TechSmith, June 2019, 16 hours

Anatomy403.1x: Anatomy: Musculoskeletal and Integumentary Systems  
University of Michigan, MichiganX, June 2019, 24 hours

Digital Visual Media Anti-Forensics and Counter Anti-Forensics (W34)  
Hackin9 Media, June 2019, 18 hours

Introduction to Fusion-Based Digital Visual Media Forensics (W35)  
Hackin9 Media, August 2019, 5 hours

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## Specialized Training Presented

ShowBiz Expo, 1997

Presented Lecture on non-linear video editing using AST's Windows NT based system

Presented Lecture on non-linear video editing using Adobe Premier on Windows NT

National Technical Investigators Association - Pacific Chapter's Winter Session, 2001

Presented Lecture on requirements of an off-line video editing bay for use in Forensic Video Analysis

Los Angeles Police Department - Divisional Roll-Call Training

Presented Roll-Call Training on the covert use of recording equipment in operations

Los Angeles Police Department - Divisional Training

Presented Training on the use of Adobe Photoshop in Forensic Video Analysis

Los Angeles Police Department - Divisional Training

Presented Training on the use of Adobe Premier Pro / After Effects in Forensic Video Analysis

Los Angeles Police Department - Divisional Training

Presented Training on the use of Sony's Vegas in Forensic Video Analysis

Los Angeles Police Department - Divisional Training

Presented Training on the use of Adobe's Creative Suite for Courtroom Presentations

Los Angeles Police Department - Divisional Training

Presented "Refresher" Training on the use of Avid in Forensic Video Analysis

Los Angeles Police Department - Divisional Training

Presented Training on the use of Sony's SoundForge for in field redactions and enhancements of audio recordings

Los Angeles Police Department - Operations West Bureau, Bureau Vice Summit, 2003

Presented Lecture on covert use of video recording equipment for use in Vice operations

Los Angeles Police Department - Organized Crime and Vice Division, OIC Vice Summit, Q2 2004

Presented Lecture on covert use of video and audio recording equipment for use in Vice operations

National Technical Investigators Association - Pacific Chapter's Winter Session, 2004

Presented Training Class "Basic Forensic Video Analysis," a 2 day class introducing law enforcement professionals to Forensic Video Analysis and providing hands on training with the hardware and software used in the process.

Los Angeles Police Department - Organized Crime and Vice Division, Pornography Section, 2005

Presented Training on use of PROP3 in pornography investigations

Los Angeles City Attorney's Office - Valley Bureau - Safe Neighborhood Division - Continuing Legal Education, January 2006

Presented "Using Video Evidence in Criminal Prosecutions"

Los Angeles City Attorney's Office - West Bureau - Safe Neighborhood Division - Continuing Legal Education, February 2006

Presented "Using Video Evidence in Criminal Prosecutions with Microsoft's PowerPoint"

Los Angeles County Sheriff's Department - Technical Services Unit - April 2006

Presented training on the collection of DCCTV Evidence and the Production of Working Copies

Los Angeles City Attorney's Office - Safe Neighborhood Division - Narcotics Enforcement Surveillance Team, May 2006

Presented "General Requirements for Digital CCTV Systems for Police Use"

Los Angeles Police Department - Scientific Investigation Division, Electronics Section, June 2006

Presented Training on support of enforcement of LAMC 41.70 using USBird and SoundForge

National Technical Investigators Association - Annual Conference, July 2006

"Advanced Forensic Photoshop" - Presented Training on the use of Photoshop in the Forensic Video Analyst's workflow.

"Advanced Forensic Photoshop" - Presented Training on the use of Photoshop for non-destructive clarification of images.

"Advanced Forensic Photoshop" - Presented Training on the use of Photoshop's layer blending modes for clarification of images.

"Imaging Forum" - Co-presented Training on the emerging standards for the collection of DCCTV evidence.

National Technical Investigators' Association Mid-States Chapter Spring Training Sessions, Indianapolis, In., April 2007  
Presented Training on Digital Video Surveillance System Evidence Recovery

Los Angeles Police Department - Training Division, Basic Detective School, April 2007  
Presented Training on Electronic Surveillance and Counter Surveillance

Los Angeles Police Department - Commercial Crimes Division, Burglary School, April 2007  
Presented Training on Electronic Surveillance, Counter Surveillance, and Sting Operations

Los Angeles Police Department - Training Division, Vice School, April 2007  
Presented Training on Electronic Surveillance and Counter Surveillance in Vice Operations

State of California - Department of Justice, Advanced Training Center  
Specialized Surveillance Equipment & Techniques, June 2007  
Presented Training on Electronic Surveillance and Counter Surveillance

National Technical Investigators' Association Annual Training Conference, Pittsburgh, Pa., July 2007  
Presented Training on Digital Video Surveillance System Evidence Recovery - 2 day long workshops

Law Enforcement and Emergency Services Video Association Annual Training Conference, Calgary, AB, October 2007  
Presented Training of the Forensic Uses of Adobe's Creative Suite 3, Photoshop CS3, and Adobe Camera Raw 4.2

National Technical Investigators' Association Pacific Chapter Spring Training Conference, City of Commerce, Ca., March 2008  
Presented Training of the Forensic Uses of Adobe's Photoshop CS3

Los Angeles County District Attorney's Office - Continuing Education Series, April 2008  
Presented Training on the use of CCTV evidence in criminal cases.

National Technical Investigators' Association Annual Training Conference, San Jose, Ca., July 2008  
Presented Training of the Forensic Uses of Adobe's Photoshop CS3

Los Angeles' Photoshop Users Group - Monthly Meet-Up, February 2009  
Presented Training in the advanced uses of Adobe's Photoshop CS3 / CS4

Adobe Government Solutions for Law Enforcement and Forensic Professionals, July 2009  
Co-Presenter of "Forensic Analysis Using Photoshop CS4 Extended" eSeminar

Photoshop for Law Enforcement - LA CLEAR/LA HIDTA, February 2010  
Presented Training in the use of Adobe's Photoshop in a law enforcement setting.

Photoshop for Law Enforcement - LA CLEAR/LA HIDTA, April 2010  
Presented Training in the use of Adobe's Photoshop in a law enforcement setting.

Photoshop for Law Enforcement - LA CLEAR/LA HIDTA, July 2010  
Presented Training in the use of Adobe's Photoshop in a law enforcement setting.

Color Correction Techniques in Adobe's Photoshop - DSI-Vegas, August 2010  
Presented Training in the use of Adobe's Photoshop for correcting color.

Authentication of Digital Multimedia Evidence - DSI-Vegas, August 2010  
Presented a case study on the authentication of DME for criminal trial.

Forensic Photoshop - LEVA Conference, November 2010  
Presented training on the use of Adobe's Photoshop for forensics.

Premiere Pro CS5.5 for Law Enforcement - DSI-Vegas, August 2011  
Presented a demonstration and a workshop on using Adobe's Premiere Pro CS5.5 for forensics.

Challenges and Responsibilities in Forensic Technology Development - DSI-Vegas, August 2011  
Co-presenter of session on the needs of law enforcement as regards technological development of forensic tools.

Examining Samsung Phones - HTCIA Conference and Expo, September 2011  
Co-presenter of training on the forensic examination of Samsung phones using FinalMobile software.

Intermediate Forensic Photoshop - LEVA, October 2011  
Presented 2 sessions on the use of Adobe's Photoshop for forensics (intermediate level).

Photoshop for Latent Print Examiners - Louisiana State Police Crime Laboratory, April 2012  
Presented two-day training on the use of Adobe's Photoshop in the Latent Print comparison workflow.

Forensic Analysis of Digital Multimedia Evidence - H-11 Digital Forensics, May 2012  
Presented two-day training on the various tools used in the analysis of digital multimedia evidence (video, audio, images).

Forensic Analysis of Digital Multimedia Evidence - Amped Software, N.A., September 2012  
Presented five-day advanced training on the use of AmpedFIVE in the analysis of digital multimedia evidence

Forensic Analysis of Milestone Server, Live Feed and Saved Files - NaTIA Pacific Chapter, April 2013  
Presented training on the use of AmpedFIVE in the analysis of evidence from Milestone Servers

Image Authentication - NaTIA Pacific Chapter, April 2013

Presented training on the authentication of digital images using Amped Software's Authenticate

Forensic Image and Video Analysis with Amped FIVE - LEVA Conference, September 2013

Presented 16 hours of training on the use of Amped FIVE in the analysis of image and video evidence

Advanced Forensic Multimedia Analysis - South African Police Service - Image Analysis Section, February 2014

Advanced level instruction/education on the uses of Amped FIVE, Amped Authenticate, Adobe Audition, FlexView Pro, as well the correct processing of crime scenes where dCCTV evidence is present.

Intermediate Forensic Multimedia Analysis - Tarrant County (Tx) District Attorney's Office, May 2014

Intermediate level instruction/education on the uses of Amped FIVE as well the correct processing of crime scenes where dCCTV evidence is present.

Basic Forensic Multimedia Analysis with Amped FIVE Professional - Oxnard Police Department, July 2014

Basic level instruction/education on the uses of Amped FIVE

Basic Forensic Multimedia Analysis with Amped FIVE Professional - Salt Lake City Police Department, October 2014

Basic level instruction/education on the uses of Amped FIVE

Basic Forensic Multimedia Analysis with Amped FIVE Professional - Memphis Police Department, April 2015

Basic level instruction/education on the uses of Amped FIVE

Basic Forensic Multimedia Analysis with Amped FIVE Professional - Houston Police Department, July 2015

Basic level instruction/education on the uses of Amped FIVE

Basic Forensic Multimedia Analysis with Amped FIVE Professional - Louisville Police Department, August 2015

Basic level instruction/education on the uses of Amped FIVE

Basic Forensic Multimedia Analysis with Amped FIVE Professional - Tarrant County DA, October 2015

Basic level instruction/education on the uses of Amped FIVE

Advanced Forensic Multimedia Analysis - US Government, November 2015

Advanced level instruction/education on the uses of Amped FIVE and Amped Authenticate.

Introduction to Amped Software Products - Taser Corp., December 2015

Basic level overview of the product line and potential work flows.

Intermediate Forensic Multimedia Analysis - Los Angeles County Sheriff's Department, December 2015

Intermediate level instruction/education on the uses of Amped FIVE as well the correct processing of crime scenes where dCCTV evidence is present.

Advanced Forensic Multimedia Analysis - BekTek, LLC, January 2016

Advanced level instruction/education on the uses of Amped FIVE.

Intermediate Forensic Multimedia Analysis - Michigan State Police, April 2016

Intermediate level instruction/education on the uses of Amped FIVE as well the correct processing of crime scenes where dCCTV evidence is present.

Basic Forensic Multimedia Analysis with Amped FIVE Professional - Amped Software, April 2016

Basic level instruction/education on the uses of Amped FIVE

Basic Image Authentication with Amped Authenticate - Amped Software, April 2016

Basic level instruction/education on the uses of Amped Authenticate

Intermediate Forensic Multimedia Analysis - Amped Software, May 2016

Intermediate level instruction/education on the uses of Amped FIVE as well the correct processing of crime scenes where dCCTV evidence is present.

Basic Forensic Multimedia Analysis with Amped FIVE Professional - Tarrant County DA, May 2016

Basic level instruction/education on the uses of Amped Authenticate

Intermediate Forensic Multimedia Analysis - Tarrant County DA, May 2016

Intermediate level instruction/education on the uses of Amped FIVE as well the correct processing of crime scenes where dCCTV evidence is present.

Intermediate Forensic Multimedia Analysis - San Jose PD, June 2016

Intermediate level instruction/education on the uses of Amped FIVE as well the correct processing of crime scenes where dCCTV evidence is present.

Advanced Forensic Multimedia Analysis - DHS HSI CCC, June 2016

Advanced level instruction/education on the uses of Amped FIVE and Amped Authenticate.

Intermediate Forensic Multimedia Analysis - Charlotte-Mecklenburg PD, August 2016

Intermediate level instruction/education on the uses of Amped FIVE as well the correct processing of crime scenes where dCCTV evidence is present.

Basic Forensic Multimedia Analysis with Amped FIVE Professional - Commerce City PD, August 2016

Basic level instruction on the uses of Amped FIVE for redacting body worn video.

Advanced Forensic Multimedia Analysis - US Government, September 2016

Advanced level instruction on 1d, 2d, and 3d Photogrammetry with Amped FIVE Professional

Advanced Forensic Multimedia Analysis - US Government, September 2016

Advanced level instruction on 1d, 2d, and 3d Photogrammetry with Amped FIVE Professional

Intermediate Forensic Multimedia Analysis - Federal Bureau of Investigation (FAVIAU), September 2016  
Intermediate level instruction/education on the uses of Amped FIVE.

Intermediate Forensic Multimedia Analysis - Amped Software, October 2016  
Intermediate level instruction/education on the uses of Amped FIVE.

Intermediate Forensic Multimedia Analysis - Summerville (SC) Police Department, November 2016  
Intermediate level instruction/education on the uses of Amped FIVE.

Intermediate Forensic Multimedia Analysis - Amped Software, October 2016  
Intermediate level instruction/education on the uses of Amped FIVE.

The Redaction Work Flow for Body Worn Cameras - LEVA Conference, November 2016  
Using Amped FIVE to redact footage for body worn cameras subject to FOIA requests.

Authenticating Images and Video - LEVA Conference, November 2016  
Using Amped Authenticate and Amped FIVE to authenticate images and video.

Intermediate Forensic Multimedia Analysis - Amped Software, January 2017  
Intermediate level instruction/education on the uses of Amped FIVE.

Basic Image Authentication with Amped Authenticate - Sonoma County Sheriff's Department (CA), February 2017  
Basic level instruction/education on the uses of Amped Authenticate.

Intermediate Forensic Multimedia Analysis - Los Angeles County Sheriff's Department (CA), February 2017  
Intermediate level instruction/education on the uses of Amped FIVE.

Intermediate Forensic Multimedia Analysis - Amped Software, February/March 2017  
Intermediate level instruction/education on the uses of Amped FIVE.

Intermediate Forensic Multimedia Analysis - Las Vegas Metropolitan Police Department, March 2017  
Intermediate level instruction/education on the uses of Amped FIVE.

Introduction to Forensic Multimedia Analysis - Garland Police Department, March 2017  
Introductory level instruction/education on the uses of Amped FIVE for forensic multimedia analysis.

Introduction to Forensic Multimedia Analysis - Amped Software, April 2017  
Introductory level instruction/education on the uses of Amped FIVE for forensic multimedia analysis.

Advanced Processing Techniques for Forensic Multimedia Analysis - Amped Software, April 2017  
Advanced level instruction/education on the uses of Amped FIVE for forensic multimedia analysis.

Introduction to Forensic Multimedia Analysis - Amped Software, July 2017  
Introductory level instruction/education on the uses of Amped FIVE for forensic multimedia analysis.

Advanced Processing Techniques for Forensic Multimedia Analysis - Amped Software, July 2017  
Advanced level instruction/education on the uses of Amped FIVE for forensic multimedia analysis.

Introduction to Forensic Multimedia Analysis - Louisiana State Police Department, August 2017  
Introductory level instruction/education on the uses of Amped FIVE for forensic multimedia analysis.

Introduction to Forensic Multimedia Analysis - Amped Software, September 2017  
Introductory level instruction/education on the uses of Amped FIVE for forensic multimedia analysis.

Introduction to Forensic Multimedia Analysis - Mercer County District Attorney's Office, September 2017  
Introductory level instruction/education on the uses of Amped FIVE for forensic multimedia analysis.

Introduction to Forensic Multimedia Analysis - Concord Police Department, September 2017  
Introductory level instruction/education on the uses of Amped FIVE for forensic multimedia analysis.

Introduction to Forensic Multimedia Analysis - Hudson County Sheriff's Department, September 2017  
Introductory level instruction/education on the uses of Amped FIVE for forensic multimedia analysis.

Introduction to Image Authentication - Amped Software, November 2017  
Introductory level instruction/education on the uses of Amped Authenticate for image authentication.

Introduction to Forensic Multimedia Analysis - Amped Software, November 2017  
Introductory level instruction/education on the uses of Amped FIVE for forensic multimedia analysis.

Advanced Processing Techniques for Forensic Multimedia Analysis - Amped Software, November 2017  
Advanced level instruction/education on the uses of Amped FIVE for forensic multimedia analysis.

Introduction to Forensic Multimedia Analysis - Middle Tennessee State University, December 2017  
Introductory level instruction/education on the uses of Amped FIVE for forensic multimedia analysis.

Introduction to Forensic Multimedia Analysis - Royal Canadian Mounted Police HQ, December 2017  
Introductory level instruction/education on forensic multimedia analysis (Amped FIVE / Authenticate).

Introduction to Image Authentication - Amped Software, January 2018  
Introductory level instruction/education on the uses of Amped Authenticate for image authentication.

Introduction to Forensic Multimedia Analysis - Dallas County Sheriff's Office, February 2018  
Introductory level instruction/education on the uses of Amped FIVE for forensic multimedia analysis.

Introduction to Forensic Multimedia Analysis - Amped Software, February 2018  
Introductory level instruction/education on the uses of Amped FIVE for forensic multimedia analysis.

Advanced Processing Techniques for Forensic Multimedia Analysis - Amped Software, March 2018  
Advanced level instruction/education on the uses of Amped FIVE for forensic multimedia analysis.

Advanced Processing Techniques for Forensic Multimedia Analysis - Amped Software, March 2018  
Advanced level instruction/education on the uses of Amped FIVE for forensic multimedia analysis.

Introduction to Image Authentication - Amped Software, March 2018  
Introductory level instruction/education on the uses of Amped Authenticate for image authentication.

Introduction to Forensic Multimedia Analysis - Amped Software, March 2018  
Introductory level instruction/education on the uses of Amped FIVE for forensic multimedia analysis.

Advanced Processing Techniques for Forensic Multimedia Analysis - Amped Software, April 2018  
Advanced level instruction/education on the uses of Amped FIVE for forensic multimedia analysis.

Introduction to Forensic Multimedia Analysis - Amped Software, April 2018  
Introductory level instruction/education on the uses of Amped FIVE for forensic multimedia analysis.

Introduction to Forensic Multimedia Analysis - Orland Park Police Department, May 2018  
Introductory level instruction/education on the uses of Amped FIVE for forensic multimedia analysis.

Introduction to Forensic Multimedia Analysis - Amped Software, June 2018  
Introductory level instruction/education on the uses of Amped FIVE for forensic multimedia analysis.

Advanced Processing Techniques for Forensic Multimedia Analysis - Amped Software, June 2018  
Advanced level instruction/education on the uses of Amped FIVE for forensic multimedia analysis.

Introduction to Forensic Multimedia Analysis - Wilmington Police Department, June 2018  
Introductory level instruction/education on the uses of Amped FIVE for forensic multimedia analysis.

Advanced Processing Techniques for Forensic Multimedia Analysis - Wilmington Police Department, June 2018  
Advanced level instruction/education on the uses of Amped FIVE for forensic multimedia analysis.

Introduction to Forensic Multimedia Analysis - Charlotte-Mecklenburg Police Department, June 2018  
Introductory level instruction/education on the uses of Amped FIVE for forensic multimedia analysis.

Advanced Processing Techniques for Forensic Multimedia Analysis  
Charlotte-Mecklenburg Police Department, June 2018  
Advanced level instruction/education on the uses of Amped FIVE for forensic multimedia analysis.

Introduction to Forensic Multimedia Analysis - Valdosta Police Department, August 2018  
Introductory level instruction/education on the uses of Amped FIVE for forensic multimedia analysis.

Introduction to Forensic Multimedia Analysis - San Joaquin County Sheriff's Department, August 2018  
Introductory level instruction/education on the uses of Amped FIVE for forensic multimedia analysis.

Introduction to Forensic Multimedia Analysis - Apex Partners, Ltd., September 2018  
Introductory level instruction/education on the uses of Amped FIVE for forensic multimedia analysis.

Advanced Processing Techniques for Forensic Multimedia Analysis - Apex Partners, Ltd., September 2018  
Advanced level instruction/education on the uses of Amped FIVE for forensic multimedia analysis.

Introduction to Image Authentication - Apex Partners, Ltd., October 2018  
Introductory level instruction/education on the uses of Amped Authenticate for image authentication.

Introduction to Video Redaction - San Joaquin County Sheriff's Office, October 2018  
Introductory level instruction on the uses of Amped FIVE for video redaction + Audacity for audio redaction.

Introduction to Forensic Multimedia Analysis - Apex Partners, Ltd., December 2018  
Introductory level instruction/education on the uses of Amped FIVE for forensic multimedia analysis.

Advanced Processing Techniques for Forensic Multimedia Analysis - Apex Partners, Ltd., December 2018  
Advanced level instruction/education on the uses of Amped FIVE for forensic multimedia analysis.

Statistics for Forensic Analysts - Apex Partners, Ltd., January 2019  
Comprehensive statistics instruction applicable for all forensic science disciplines.

Introduction to Forensic Multimedia Analysis - Apex Partners, Ltd., February 2019  
Introductory level instruction/education on the uses of Amped FIVE for forensic multimedia analysis.

Advanced Processing Techniques for Forensic Multimedia Analysis - Apex Partners, Ltd., February 2019  
Advanced level instruction/education on the uses of Amped FIVE for forensic multimedia analysis.

Statistics for Forensic Analysts - Apex Partners, Ltd., February 2019  
Comprehensive statistics instruction applicable for all forensic science disciplines.

Introduction to Forensic Multimedia Analysis - Apex Partners, Ltd., March 2019  
Introductory level instruction/education on the uses of Amped FIVE for forensic multimedia analysis.

Introduction to Image Authentication - Apex Partners, Ltd., March 2019  
Introductory level instruction/education on the uses of Amped Authenticate for image authentication.

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Comprehensive statistics instruction applicable for all forensic science disciplines.

Advanced Processing Techniques for Forensic Multimedia Analysis - Apex Partners, Ltd., May 2019  
Advanced level instruction/education on the uses of Amped FIVE for forensic multimedia analysis.

Advanced Processing Techniques for Forensic Multimedia Analysis - Apex Partners, Ltd., May 2019  
Advanced level instruction/education on the uses of Amped FIVE for forensic multimedia analysis.

Statistics for Forensic Analysts - Apex Partners, Ltd., May 2019  
Comprehensive statistics instruction applicable for all forensic science disciplines.

Statistics for Forensic Analysts - Apex Partners, Ltd., June 2019  
Comprehensive statistics instruction applicable for all forensic science disciplines.

Forensic Photographic Comparison, Apex Partners, Ltd., June 2019  
Comprehensive photographic comparison instruction applicable for all forensic science disciplines.

Forensic Photographic Comparison, Apex Partners, Ltd., June 2019  
Comprehensive photographic comparison instruction applicable for all forensic science disciplines.

Forensic Photogrammetric Analysis, Apex Partners, Ltd., June 2019  
Comprehensive forensic photogrammetry instruction applicable to digital / multimedia forensic analysis.

Introduction to Forensic Multimedia Analysis - Apex Partners, Ltd., July 2019  
Introductory level instruction/education on the uses of Amped FIVE for forensic multimedia analysis.

Introduction to Image Authentication - Apex Partners, Ltd., July 2019  
Introductory level instruction/education on the uses of Amped Authenticate for image authentication.

Introduction to Forensic Multimedia Analysis - Apex Partners, Ltd., August 2019  
Introductory level instruction/education on forensic multimedia analysis (non-platform specific).

Statistics for Forensic Analysts - Apex Partners, Ltd., August 2019  
Comprehensive statistics instruction applicable for all forensic science disciplines.

Introduction to Forensic Multimedia Analysis - Apex Partners, Ltd., September 2019  
Introductory level instruction/education on forensic multimedia analysis (non-platform specific).

Statistics for Forensic Analysts - Apex Partners, Ltd., September 2019  
Comprehensive statistics instruction applicable for all forensic science disciplines.

Introduction to Forensic Multimedia Analysis - Apex Partners, Ltd., October 2019  
Introductory level instruction/education on forensic multimedia analysis (non-platform specific).

Introduction to Forensic Multimedia Analysis - Apex Partners, Ltd., December 2019  
Introductory level instruction/education on the uses of Amped FIVE for forensic multimedia analysis.

Introduction to Forensic Multimedia Analysis - Apex Partners, Ltd., January 2020  
Introductory level instruction/education on the uses of Amped FIVE for forensic multimedia analysis.

Introduction to Forensic Multimedia Analysis - Apex Partners, Ltd., January 2020  
Introductory level instruction/education on forensic multimedia analysis (non-platform specific).

Introduction to Forensic Multimedia Authentication - Apex Partners, Ltd., February 2020  
Introductory level instruction/education on forensic multimedia authentication (non-platform specific).

Introduction to Forensic Multimedia Analysis - Apex Partners, Ltd., March 2020  
Introductory level instruction/education on the uses of Amped FIVE for forensic multimedia analysis.

Introduction to Forensic Multimedia Authentication - Apex Partners, Ltd., March 2020  
Introductory level instruction/education on forensic multimedia authentication (non-platform specific).