LOS ANGELES POLICE DEPARTMENT
Technical Investigation Division

STATEMENT OF QUALIFICATIONS

Kenneth James Hoerricks
Police Surveillance Specialist I
Senior Forensic Digital Multimedia Analyst

Current Area of Assignment
Detective Bureau - Technical Investigation Division - Electronics Unit

Education
A.S., Political Science, Santa Rosa Junior College, 1992
B.A., Organizational Leadership (BOL), Woodbury University, 2009
M.A., Organizational Leadership (MOL), Woodbury University, 2010
Ph. D., Higher Education Leadership, Trident University, (in progress - expected graduation date, 2016)

Professional Experience
04/01 - Present - Police Surveillance Specialist I
      Los Angeles Police Department
01/91 - Present - Photographer / Designer / Author / Instructor / Analyst
      Self Employed
12/10 - Present - Director
      West Valley County Water District
01/10 - 08/2015 - Managing Partner, Forensic Audio/Video/Image Analyst
      Forensic Analysis Associates, LLC, Lancaster, CA
04/07 - 12/13 - Instructor
      LEVA (Law Enforcement and Emergency Services Video Assoc.)
10/05 - 12/13 - Instructor
      NATIA (National Technical Investigators Assoc.)
10/08 - 12/10 - Instructor, Forensic Photoshop
      AIFE (American Institute of Forensic Education)
05/10 - 12/10 - Associate Professor (Organizational Leadership)
      Woodbury University, Burbank, CA
06/07 - 12/09 - Fill-In Instructor, Photoshop
      Art Center College of Design - Photography Dept., Pasadena, CA
10/05 - 01/07 - Instructor, Forensic Photoshop
      California Polytechnic University, Pomona, CA

Certifications / Licenses
General Radiotelephone Operators License, Serial Number PG00003984
      Federal Communications Commission, March 2002
Adobe Photoshop CS, Transcript ID 191832
      BrainBench, October 2005
Microsoft PowerPoint 2003, Transcript ID 191832
      BrainBench, May 2006
Mobile Phone Seizure Certification, Certificate Number 1643
      BKForensics, October 2010
Amped Certified Instructor (FIVE, Authenticate, Video Scanner, First Responder)
      Amped Software NA, July 2012
Large Emergency Event Digital Information Repository (LEEDIR) Certified
      Citizen Global, June 2014

Awards Received
Outstanding Achievement in Photography, Silver Award (2004, 2006)
         International Society of Photographers

Testimony
Testified as an Expert in Forensic Multimedia Analysis:
        People v. Carpenter (3CR13501) Los Angeles County Superior Court, April 2004 (Video Clarification)
        People v. Cruz (4CR06272) Los Angeles County Superior Court, April 2004 (Video Clarification)
        People v. Casey (PA049315) Los Angeles County Superior Court, January 2005 (Video Clarification)
        People v. Garcia (62-55517) Sacramento County Superior Court, October 2006 (Video Clarification & Content Analysis)
        People v. Abdullah (BA353334) Los Angeles County Superior Court, December 2009 (Video Authentication)
        People v. Kemp (BA387506) Los Angeles County Superior Court, May 2014 (Video Clarification & Content Analysis)

Testimony (General)
        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-Sharpe / Lopez (BA397214) Los Angeles County Superior Court, March 2015
                (Testified as to my involvement in a digital multimedia evidence retrieval)

Declarations and Depositions
        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.

Specialized Training
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
>US Coast Guard / National Technical Investigators' Association Mid-States Chapter, Indianapolis, In., April 2007, 2 Hours

Forensic Analysis of Cellular Telephones
>Purdue Univ. / National Technical Investigators' Association 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
Visual Perception and the Brain
        Duke University (via Coursera), January-March 2015, 8 weeks

Professional Affiliations

ASTM International (E30 Participating Member #1803632)
International Association of Property Crime Investigators (IAPCI)
Law Enforcement and Emergency Services Video Association (LEVA)
National Technical Investigators Association (NATIA)
National Association of Investigative Specialists (NAIA)

Training Given

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 technical 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

Major Projects

Los Angeles Police Department - Organized Crime and Vice Division / Scientific Investigation Division
>	Designed the Digital Recording Support Unit 3 (DRSU3) and supervised it's manufacture at Adaptive Digital Systems in Irvine, CA. The DRSU3 is a mobile unit designed to provide support (to LAPD Officers and Detectives) in the field for compliance with the LA City Attorney's filing guidelines for digital evidence for LAMC 41.70 offences, also known as Nuisance Abatement By Seizure (NABS).

Los Angeles Police Department - Organized Crime and Vice Division / Scientific Investigation Division
>	Designed a multi-media/investigative lab (PROP3) for the Organized Crime and Vice Division's Pornography Unit.

Los Angeles Police Department - Narcotics and Vice Division
>	Designed High Definition video editing bay for use in investigations involving high definition video in pornography and piracy of HD titles.

Los Angeles Police Department - Southeast Division
>	Designed / installed tactical wireless mesh video network with coverage of Jordan Downs, Nickerson Gardens, and Imperial Courts housing projects.

Los Angeles Police Department - Jail Division
>	Designed digital video/audio recording units for support of Proposition 69 mandates for recording of DNA swabbing of felony arrestees.

Los Angeles Police Department - Southeast Division
>	Designed digital video/audio recording unit for use in their interview rooms.

Los Angeles Police Department - 77th Street Division
>	Designed digital video/audio recording unit for use in their interview rooms.

City of Los Angeles - Department of Transportation - Taxicab Regulation, Public Conveyance, and Pipeline Divisions
> Provided technical/engineering support for the research and development of standards of practice for the installation, maintenance, and viewing of Digital CCTV systems in taxi cabs licensed by the City of Los Angeles and governed by Board Order 039 (2006).

Los Angeles Police Department - Detective Headquarters Division
> Designed digital video/audio recording units for use in all divisional stations.

Los Angeles Police Department - Scientific Investigation Division, Electronics Section
> Designed/maintained "TapeTrack" - Asset tracking and management database for the LAPD's 500,000+ pieces of audio/video evidence.
> Designed/installed/maintained the unit's secure LAN for use with "TapeTrack."

Los Angeles Police Department - Scientific Investigation Division, Polygraph Section
> Designed/installed the Polygraph unit's internal secure LAN and interview suite audio/video recording scheme in conjunction with the unit's chosen vendors.

Los Angeles Police Department - Rampart Division
> Designed/Installed digital video/audio recording unit for use in their interview rooms.

Cooperative Assignments

Department of Justice - Federal Bureau of Investigation - South Los Angeles Violent Gang Task Force - 2004-2005
> Lead Surveillance Specialist "on loan" to the FBI for the purpose of capturing high dollar/large quantity narcotics transactions on video during the investigative phase and expert testimony during prosecution of suspects.
> Resulted in 16 federal warrants, 22 state warrants, and 30 parole/probation checks.

United States Secret Service, Federal Bureau of Investigation's Forensic Audio, Video, and Image Analysis Unit, Department of Defense's Technical Support Working Group, British Home Office Scientific Development Branch, Metropolitan Police (London)'s Digital Video Laboratory, New York Police Department, and the National Terrorism Preparedness Institute - March 2006
> Local Agency Forensic Video Analyst representative to this international working group whose purpose was to produce accepted standards of practice for law enforcement retrieval of digital CCTV evidence and the appropriate method of production working copies for courts/investigators. The resulting publication, "Best Practices for the Retrieval of Digital CCTV Evidence," funded by the US Department of Defense and published by the National Terrorism Preparedness Institute, was made available to law enforcement agencies world wide.

Placer County District Attorney's Office - People v. Mario Garcia, Sacramento County Superior Court 62-55517
> Provided Forensic Video Analysis of crime scene video for the court.

Department of Homeland Security, Technical Operations Division, Law Enforcement Technologies Branch -
> Forensic Video Recovery and Analysis Working Group - December 2008
> Local Agency Subject Matter Expert to this working group whose purpose is to produce training materials and coursework in the recovery and analysis of digital multimedia evidence from crime scenes and/or major terrorism related incidents.

Department of Justice - Federal Bureau of Investigation - South Los Angeles Violent Gang Task Force - 2008-2009
> Lead Surveillance Specialist "on loan" to the FBI for the purpose of capturing high dollar/large quantity narcotics transactions on video during the investigative phase and expert testimony during prosecution of suspects.
> Resulting in 26 federal indictments, 24 state indictments, and over 30 felony arrests.

Facial Imaging Scientific Working Group - June 2009
> Los Angeles Police Department's Delegate to the Facial Imaging Scientific Working Group (FISWG)

International Association of Chiefs of Police, Video Standards for Law Enforcement Applications - February 2011 - June 2014
> Interview Room Recording Systems Standards Development working group tasked to come up with consensus standards to present to the National Institute of Justice for adoption.

Organization of Scientific Area Committees, IT/Multimedia Scientific Area Committee's Imaging Technology Subcommittee.

US Department Of Commerce, National Institute of Standards and Technology. - October 2014 - Present
> The OSAC is a collaborative body of more than 600 forensic science practitioners and other experts who represent local, state, and federal agencies; academia; and industry. NIST is establishing OSAC to strengthen the nation's use of forensic science by supporting the development and promulgation of forensic science consensus documentary standards and guidelines, determining each forensic discipline's research and measurement standards needs, and ensuring that a sufficient scientific basis exists for each discipline.

Research and Development
Adobe Systems, Inc.
> Beta tester for Adobe's Photoshop CS4
> Beta tester for Adobe's Photoshop CS5
> Beta tester for Adobe's Acrobat 9

Amped Software
> Best tester for Amped FIVE
> Beta tester for Amped Authenticate
> Beta tester for Amped DVRx
> Beta tester for Amped VideoScanner

Ocean Systems
> Beta tester for Ocean Systems' Archive-R
> Beta tester for Ocean Systems' Omnivore

Salient Stills, Inc.
> Beta tester for VideoFocus 3

Sanyo/Fisher North America, Corp.
> Beta tester for Sanyo's Case Information Media Management versions 1 and 2

Los Angeles Police Department - Information and Communications Services Bureau / Detective Bureau / Valley Bureau
> Provided engineering support in evaluating RFP 07-567-007, a Valley wide digital CCTV network, prior to the release of the RFP to the public.

Published Work
Re-sizing Images in Adobe Photoshop CS. June 2004
> Written for LAPD/NATIA training program in Forensic Video Analysis.

Video Tape Evidence Collection. August 2005
> Written for LAPD training program in the retrieval of video tapes from crime scenes.

Retrieval of DCCTV Evidence and the Production of Working Copies, A Methodology for Training. April 2006
> Written for LAPD training program in the retrieval of digital video evidence from crime scenes and the subsequent processing of the evidence in the laboratory.

General Requirements for Digital CCTV Systems. May 2006
> Written for LAPD training program and for distribution to the general public. Offers guidance to potential users of digital CCTV systems, where the pictures are intended to be used by the police or are likely to be used in an investigation.

NATIA - Certified Technical Investigator Program Study Guide, June 2006
> Wrote Chapter 7, Handling Digital Video Evidence, for 2nd Edition.
> Revised sections of Chapter 12, Video Recorders, for 2nd Edition.

Using Layer Blending Modes in Photoshop CS2. August 2006
> Written for NATIA quarterly newsletter, for use in their training section.

Blending Mode Math. May 2007
> Written for the Viewfinder, LEVA's official publication.

Basic Principles for Processing Digital Multimedia Evidence. August 2007
> Written for NATIA quarterly newsletter, for use in their training section.

Forensic Photoshop blog, September 2007 - Present
> http://forensicphotoshop.blogspot.com - Write on-line web log (blog) for the purpose of providing continuing educational opportunities for previous Forensic Photoshop students and others of similar interests.

Removing Color Casts with Adobe Photoshop CS3, November 2007
> Written for NATIA quarterly newsletter, for use in their training section.

Forensic Photoshop - a comprehensive imaging workflow for forensic professionals
> Blurb Publishing, Seattle, January 2008, Soft Cover ISBN - 978-1-60530-793-0

Forensic Lightroom blog, April 2008 - March 2009
> http://forensiclightroom.blogspot.com - Write on-line web log (blog) for the purpose of providing continuing educational opportunities for previous Forensic Lightroom students and others of similar interests.

Photoshop's Auto Adjustments, July-September 2008
> Written for the July- September 2008 edition of the Arkansas Identification News, a journal of the Arkansas Chapter
> of the International Association for Identification

Television Appearances

"Diaries from Hell" - National Geographic Channel - April/May 2008
> Provided studio and on-camera support for verification / authentication of 3D Photogrammetry techniques used to
> to attempt to prove identity of unknown subject in old photos from known persons.

"MonsterQuest: Terror from the Skies" - History Channel - July/August 2009
> Provided studio and on-camera support for analysis and clarification of on-scene video of "unidentified flying humanoids."

Executive Experience

01/07 - 01/09 - President, St. Andrew Society of the Central Coast, a California 501(c)(3) non-profit corporation
> President of a member supported charity organization representing over 500 members in several western
> coastal counties in the state of California. Responsible for oversight of the board's activities as well as the
> operation of an agency staffed entirely with volunteers.

03/08 - 03/09 - Training Coordinator, Pacific Chapter - NATIA
> Responsible for coordinating with training providers in facilitating regional training as well as working with the national
> Director of Training on the national convention's training program.

01/05 - 01/07 - Vice President, St. Andrew Society of the Central Coast, a California 501(c)(3) non-profit corporation
> Vice President of a member supported charity organization representing over 500 members in several western
> coastal counties in the state of California. Responsible for the Society's charitable activities and fund raising.

01/05 - 01/06 - Treasurer, Beverly Hills Lodge #528, Free and Accepted Masons, a California 501(c)(10) non-profit corporation
> The Treasurer of the Beverly Hills Lodge is responsible for the receipt and disbursement of all monies due or owed
> to/by the Lodge as well as for the oversight of the management of the Lodge's multi-million dollar portfolio of stocks,
> property, and oil rights. Obtained certification from California's Grand Lodge of Free and Accepted Masons in financial
> management in 2005.

06/03 - 05/04 - President, Scottish American Athletic Association, a California 501(c)(3) non-profit corporation
> President of a member supported charity organization representing over 1000 members in several western
> states, Canada, Australia, and the United Kingdom. Responsible for the daily activities of an agency
> staffed entirely with volunteers. Responsible for the Association's charitable activities, events, and fund raising.

01/96 - 12/04 - Director for Publications, Clan MacFarlane, a Maryland 501(c)(3) non-profit corporation
> Responsible for the creation and distribution of all publications related to the activities of this ancient Highland Clan.
> Supervised photographers and graphic artists working in the corporation's offices in the United Kingdom, Australia,
> Canada, and the United States.

08/91 - 6/92 - Trustee, Board of Trustees for the Sonoma County Community College District, Santa Rosa, CA
> Served one term as elected representative on the SCCCD's Board of Trustees.
> Held the seat for at-large Student Trustee, elected in popular vote of the District's entire student body.

06/10 - 05/13 - Sgt. at Arms, Clan MacFarlane, a Maryland 501(c)(3) non-profit corporation
> Chief parliamentarian for this ancient Highland Clan.

12/10 - Present - Director / Financial Director, West Valley County Water District
> Appointed to serve an open position (elected public office) on the Board of Directors of this California Special District by
> LA County Supervisor Michael D. Antonovich. The WVCWD is the water utility that serves the Holiday Valley
> area of the western Antelope Valley in southern California.

01/91 - Present - Owner / Photographer / Designer / Author / Instructor / Analyst
> Self Employed photographer / designer / author / Instructor / Analyst of a thriving business in Southern California.
> Clients include George Washington University's Wolcott Foundation Fellowship, Walters' Speaker Service,
> Royal Publishing, Bonbright Woolens, Creative Differences Media, Maxine Miller Studios, and many more.

09/13 - Present - At-Large Member, California Libertarian Party Executive Committee
> The Executive Committee provides governance and leadership for the California Libertarian Party.