

Curriculum Vitae

Steven Kline

CFVT

Owner

Pixel Analysis, LLC

126 Monroe Turnpike
Trumbull, CT 06611



REVISED: 03/25/2025

Education:

Pratt Institute, Brooklyn, NY - 1994, Bachelor's of Architecture (BARCH)

Studies included: Architectural Design, Structural Engineering, Architectural Representation, Computer Aided Design (CAD), Building Siting, Graphic Design, Illustration, Painting, and Animation.

Forensic Analysis Training

Industry Membership:

LEVA Membership: 2017 - Present

Law Enforcement & Emergency Services Video Association International, Inc. (www.leva.org)

Certification & Training:

LEVA Certification: CFVT

Certified Forensic Video Technician: March 2018 – Present

Axon Investigate:

Metrology Certification: March 2024

FAA Remote Pilot:

Licensed UAS Remote Pilot – FAA – Title 14:1.F Part 107 – Certified: August 2022 - Present
Drone Pilot Ground School - (30 Hours) – July 2022

LEVA Symposium:

October/2024 (Indianapolis, IN)

Continuing Education and Training – (38 Hours)

- Various Software Training for Forensic Video and Audio Analysis
- Case Review
- AmpedFIVE and Amped Authenticate Advanced Forensic Review
- Axon Investigate Advanced Forensic Review
- AI and Deep Fake
- Camera Sync and Video Timing
- Camera Based Distance, Timing, and Speed Analysis
- Advanced Audio Analysis
- Advanced Presentation

October/2023 (Portland, ME)

Continuing Education and Training – (21 Hours)

- Various Software Training for Forensic Video and Audio Analysis
- Case Review
- AmpedFIVE
- Advanced Audio Analysis
- Advanced Presentation

October/2020 (Virtual)

Continuing Education and Training – (30 Hours)

- Various Software Training for Forensic Video and Audio Analysis

- Case Review
- “Deep Fakes” - Image Authentication
- Speed Determination – Light Boards
- Adobe Premiere and Photoshop in Video Forensics

October/2019 (Denver, CO)

Continuing Education and Training – (38 Hours)

- Various Software Training for Forensic Video and Audio Analysis
- Case Review
- Skill Development and Hands-on Training
- “Disturbing Images” – recognizing when the work effects your personal life.
- Cell Phone and Device Forensics

Expert Witness Training:

COURSE: SEAK expert witness report writing (16hrs) – June/2023

Instructors: Nadine Nasser Donovan, Esq. & Kelly J. Wilbur, Esq.

- Drafting and Refining Expert Reports
- Best Practices for Report Writing
- Requirements for Expert Reports in Federal Cases
- Presenting Reports in Deposition and Trial
- Report Templates and Report Segments
- Drafting Scope and Opinion Statements

Course: Courtroom Testimony for the Expert Witness (24 Hours) – May/2019

Instructor: Jonathan W. Hak, Q.C.

- Preparation for courtroom testimony
- Drafting expert reports
- The role of the prosecutor, defense attorney, judge and jury
- Trial procedure
- Becoming qualified as an expert witness for the first time
- Expert witness bias and bias awareness
- The role of the expert witness
- Strategies for effective direct examination
- Strategies for successfully handling cross examination
- Changing opinions
- *Daubert* and *Frye* hearings
- The role of the expert witness when there is an opposing expert
- Moot Court

LEVA Training:

COURSE: LEVA Level 4: Advanced Forensic Video Analysis and the Law (40 Hours) – Dec/2018

- Hands-on processing of video evidence
- Advanced evaluation and report writing
- Interactive moot court presentation and evaluation

- Updated review of relevant case law
- Advanced forensic video analysis techniques
- Practical application of forensic software
- Skills evaluation based on application to real world case files
- Preparation and presentation of court charts
- Writing expert conclusion statements based on supporting report/data
- Bias Awareness Training Part 2

COURSE: LEVA Level 3: Forensic Video/Image Compare and Contrast (40 Hours) – Sept/2018

- Proper Usage of the Latest Image Examination Technologies
- Analysis and Examination of Characteristics found in Questioned Evidence
- Scientific Methods for Comparing Known Items to CCTV Images of Questioned Items
- Advanced Scientific Workflow for Analysis of Video Evidence
- Compare and Contrast Methodologies
- Production of Comparison Charts
- Criminal Case Report Writing and Courtroom Presentation
- Bias Awareness Training Part 1

COURSE: LEVA Level 2: Digital Media Evidence Processing and the Law (40 Hours) – Feb/2018

- Proper Digital Media Evidence Handling, Processing, and Best Practices
- Hands-on training with evaluation/authentication software: *JPEGSnoop; MediaInfo; ExiffTool; Input Ace DME Interrogation; Photoshop Image Interrogation; ffProbe/ffPlay*
- Hands-on training with processing software: *Adobe Photoshop and Ocean Systems' – ClearID plugins; Avid Media Composer and Ocean Systems' – dTective plugins; Amped Five; Input Ace; ffmpeg, Audio Processing with Adobe Audition*
- Audio Clarification and Forensic Analysis
- Scientific Method for DME Processing
- Reporting and Analysis

COURSE: LEVA Level 1: Forensic Video Analysis & the Law (40 Hours) – June/2017

- In-depth study of video and image encoding: including an into to encoding types, processes, techniques, and encoding algorithms.
- Introduction to DME Processing and Best Practices.
- Evidence Recovery from DVR, NVR, Video Tape, and DME Files
- Introduction DME and the Law
- Roles and Responsibilities of FVA in Court of Law
- Case Law involving Expert Witnesses and Video Forensics
- DME Authentication and Verification Techniques
- Report Writing

Magnet Forensics – Magnet Verify Training (16 hrs)

DV150 Media Authentication and Analysis with Magnet Verify: March 2025

Digital Media Authentication through encoding structural analysis

AXON – Investigate with Camera Match Overlay: (Formerly Input-ACE)

Metrology Certification: March 2024

3D Point Clouds, Lightboard, Faro Scene, Cloud Compare and Faro Zone 3d
Axon Investigate – Camera Match Overlay Tool

Various Training Sessions: 2017 - Present

Forensic Video Interrogation & Analysis Toolset
3D Laser Scanner – Video Camera Match Overlay Tool

3D Laser Scanning & Photogrammetry Technologies:

PhotoModeler Training: (www.photomodeler.com)

Photogrammetry, Camera Calibration, Determining Measurements from images, Height Calculations, Speed Calculations

Faro Laser Scanning: (www.faro.com)

3D Laser Scanning
Faro Scene & Faro Zone 3D Advanced Software

Various Training 2022-Present

Faro Zone 3D – Field to Finish Seminar - Feb/March 2023

Ocean Systems Training:

COURSE: Forensic Video Analysis 101 (32 Hours) – August/2017

- Specialized software training on the latest versions of Avid Media Composer, dTective, ClearID, InputAce, Omnivore, Adobe Photoshop.
- DME Processing Best Practices and Workflows
- Image Clarification, Framerate Correction, Authentication, Image Processing and Workflow, Reporting Results.

Computer Drafting/Analysis:

Autodesk – Autocad (www.Autodesk.com)

Work Experience

Pixel Analysis, LLC, Trumbull, CT: 2020 - Present

ROLE: Owner

Steve Kline founded Pixel Analysis, LLC (**PA**) as a dedicated Digital Media Forensic Lab. **PA** split from Firelight Media LLC in January 2020, to focuses on Forensic Video, Audio and Image Analysis for legal matters – including both criminal and civil cases. **PA** is also dedicated to education of local PD's, Legal Organizations, and Educational Institutions – in their Forensic, Criminal Justice, and Continuing Education Programs.

- **Forensic Analysis:** Forensic Examination of digital media evidence for Municipal/State Police, Prosecution & Defense Counsel, Civil Cases and Private Security Firms; **PA** provides Court Room Demonstratives; Expert Witness Testimony; Video Interrogation; Photogrammetry; Video Clarification; Authentication/Verification; Image Comparison, Forensic Audio Clarification; 3D Laser Scanning and Analysis; Drone Imaging of Scenes

Firelight Media, Trumbull, CT: 2005 - Present

ROLE: Owner & Managing Partner

- **Forensic Analysis:** Forensic Examination of video evidence for Private Security, Municipal/State Police, Prosecution, and Defense Counsel; Court Room Demonstratives;

Expert Witness Testimony; Video Footage and Image Interrogation; Photogrammetry; Video Clarification; Authentication/Verification; Forensic Audio Clarification.

- **Video Production:** Design and produce all aspects of Video Production Projects; Engineer Live Event Production; Video Encoding & Live Event Streaming; Video Engineering and Systems Integration; Video Conference Integration into Live Events; Video and Graphics Post-production; 3D Animation and Simulation.
- **Audio Production:** Design and produce all aspects of Audio Production; Engineer Live Audio Event Production; Integrate remote audio presentation into live events; produce live audio conference calls; Audio Recording & Post-production.

Sunrise Enterprises, LLC, Shelton, CT: 1999 – 2005

ROLE: Owner/Senior Designer and Digital Media Developer

- **Forensic Video Analysis:** Forensic Examination of video evidence for Private Security, Municipal/State Police; Video Footage Interrogation; Video Clarification.
- **Video Production:** Design and produce all aspects of Video Production Projects; Video Encoding & Live Event Streaming; Video and Graphics Post-production; 3D Animation and Simulation; Develop Multimedia content for CD-ROM and Web usage; Develop Interactive Web Applications – specific to Distance learning and video integration.
- **Audio Production:** Design and produce all aspects of Audio Production

Ball & Chain Studios, Stamford, CT: 1994 – 1999

ROLE:

1995-1999 – Senior Designer and Lead Animator

1994-1995 – 3D Animator and Graphic Artist

- **Forensic Video Analysis:** Forensic Examination of video evidence for Private Security, Municipal/State Police; Video Footage Interrogation; Video Clarification.
- **Video Production:** Design and produce all aspects of Video Production Projects; Video Encoding & Live Event Streaming; Video and Graphics Post-production; 3D Animation and Simulation; Develop Multimedia content for Web usage; Develop Interactive Web Sites.
- **Audio Production:** Design and produce all aspects of Audio Production; Audio Recording & Post-production.

Accurate Construction, New Haven, CT: 1990 – 1994 (Various)

ROLE: Contractor's Assistant

- **Construction:** Home Remodels: Foundations, Wood Frame Construction, Sheetrock, Plumbing and Electrical, Trim work, Roofing, Siding, Painting – Transit and Laser Level Surveying, Hand and Power Tools,

Overall Professional Skillsets:

Experience/Skills:

Forensic Video Analysis and Clarification
Video, Image and Audio Evidence Interrogation
Forensic Image Comparison & Interpretation
Reverse Projection & Photogrammetry
Camera Mapping & Site Analysis
Audio Clarification

Height and Speed Calculations & Comparisons
Video and Audio Technologies/Encoding/Engineering
Video Lighting Techniques & Scene Analysis
Technical Drawing – Architectural, Orthogonal, and Perspective Drawing
Trial Media Production
2D/3D Modeling, Animation and Representation
CAD and Mechanical Engineering Drawing
3D Laser Scanning

Additional Training:

- *Martial Arts Instructor: 1990 – Present*
- *Pratt Institute martial Arts – Head Instructor: 1990-1994*
- **Certified Master Instructor: 2011-Present; 6th Degree Black Belt: 2022-Present**

Martial Arts Competition - Judge and Referee: 1993 – Present

Experienced in Physical Confrontation/Body-Mechanics/Empty-Hand Combat

Weapons Training – Knives; Short and Long Staff; Korean & Chinese Swords; Philippian Stick Fighting (Kali); traditional and improvised weapons.

Awards:

New England Region Competition Team: Forms and Sparring – TSD Moo Duk Kwan National Tournament: 1993 – Dallas, TX; 1994 – San Diego, CA; 1995 – Orland FL

CT National Sparring Team – TSD Mi Guk Kwan International Tournament: 2007 Warwick, RI (Captain)

USA National Sparring Team – World TSD Family International Tournament: 2012 Orland, FL; 2018 – London, England, UK (Asst. Coach); 2023 – Orlando, FL (Captain)

Key Software Usage/Experience:

Magnet Verify: 2024- Present: Digital Media authentication through encodogn structure patterns

Faro Scene and Faro Zone 3D: 2021 - present: 3D Scan Processing Software, Photogrammetry

AmpedFIVE: 2019 – Present: Forensic Analysis and Media Interrogation Tools

AXON Investigate: 2017 – Present: Forensic Analysis and Media Interrogation Tools

PhotoModeler: 2017 – Present: Photogrammetry

Ocean Systems - ClearID for Adobe Photoshop: 2010 – Present: Image Clarification Plugins

Ocean Systems - dTective for Avid Media Composer: 2010 – Present: Video Clarification and Presentation Suite

Adobe Audition: 2011 – Present: Audio Editing/Processing Software

Adobe Premiere: 2010 – Present – Video: Editing/Processing Software

Avid Pro-Tools (audio): 2007 – Present: Audio Editing/Processing Software

Avid Media Composer (video): 2000 – Present: Video Editing/Processing Software

Adobe Dreamweaver: 2002 – Present: Web Development Technologies

Autodesk 3D Studio/Maya: 2000 – Present: 3D Modeling and Animation

Adobe PhotoShop & AfterEffects: 1995 – Present: Clarification, Processing and Presentation

Newtek Lightwave 3D: 1994 – Present: 3D Modeling, Design and Animation

Autodesk AutoCAD: 1992 – Present: Computer Aided Drafting

Training Seminars: Presenter/Instructor

Henry Lee Institute of Forensic Science, West Haven, CT

“Theory, Techniques, and Case Work in Forensic Video Analysis”

- 3-hour Seminar: January 16, 2018 – Sole Instructor
- Audience: 22 Police supervisors from Henan Province, China.
- The seminar covered:
 - Basics of video
 - Current video forensic technologies and uses
 - Clarification capabilities
 - Reverse projection – What is it? How is it helpful?
 - Photogrammetry– What is it? What data/information can we reveal?
 - Best practices for finding video at a crime scene
 - A review of various case studies.

Center for Advanced Policing, University of New Haven; West haven, CT

“Getting the Most from Video Evidence: Considerations from Collection to Prosecution”

- 3-hour Seminar: June 5, 2018 – Sole Instructor
- Audience: 25 Police offices from various Connecticut municipalities
- Seminar was in co-ordination with continuing education for CTPOST (CT Police Officer Specialty Training)
- The seminar covered an overview of video technologies, including:
 - Introduction to video engineering, principals of encoding, how technology/settings effects quality
 - Best practices and thought process for use of video during an investigation
 - Uncovering hidden information within video evidence.
 - Importance of proper preservation of evidence.
 - Use of video by the prosecution.
 - The differences between the needs of the investigator from that of the prosecutor.
 - Important information captured in marginal quality video
 - Information missing in “high quality” video.
 - Real-world case studies

Various Lectures at Connecticut high school forensic science classes 2022 – Present

Forensic Video Analysis Case Work:

Case Work Overview:

2012-Present: *Defense and Civil Cases – Various: Personal Injury; Assault; Robbery; Negligence; Property Disputed.*

2010-Present: *Bridgeport PD, Bridgeport CT – Various: Homicide, Hit & Run; Manslaughter; Suspect Speed Calculations.*

2007-Present: *State Attorney's Office, Bridgeport, CT – Various: Rape, Homicide, Manslaughter, suspect tracking, Suspect Speed and Height Calculations.*

2000-2012: CT State Police, Major Crimes W. District. – Various: Robbery & Homicide; Also brought in to aid other jurisdictions in cases supported by CT State Major Crime Division
1995-2003: Stamford PD, Stamford CT – Various: Bank Robbery, Robbery, and Hit & Run
1995-Present: Securitas (Formerly Pinkerton Security): Various: Suspect tracking, Theft, HR Compliance

5-YEAR TESTIMONY: Expert Witness Digital Media Forensics			
Date	Case Name	Case Number	Jurisdiction
2/26/2025	Alexandra Tourtellot v Holladay Construction Group, et. al.	2022 L 007677	Cook County, IL
	<i>Judge: n/a</i>	Called by: Defense	<i>Type: Deposition (Civil – Workplace Injury)</i>
11/21/2024	State CT v. Calvin Williams	CR21-343989	Fairfield County, CT
	<i>Judge: Hon. Earl Richards</i>	<i>Called By: State CT</i>	<i>Type: Trial (Criminal - Homicide)</i>
5/29/2024	Michelle Blechman v. SB 222, LLC	WC-2022-0455	Wakefield, RI
	<i>Judge: Hon. Sarah Taft-Carter</i>	<i>Called by: Plaintiff</i>	<i>Type: Trial (Civil - Adverse Possession)</i>
5/3/2024	State CT v V. Clarke	FBT -CR20-0339571-T	Fairfield County, CT
	<i>Judge: Hon. Peter McShane</i>	<i>Called By: State CT</i>	<i>Type: Trial (Assault 2-Intent Serious Physical Injury)</i>
4/5/2024	State ME v Stilley	CUMCD-CR-2020-03318	Cumberland County, ME
	<i>Judge: Hon. MaryGay Kennedy</i>	<i>Called by: Defense</i>	<i>Type: Trial (Criminal - Homicide)</i>
2/23/2024	LSPA v Royce	220-2021-CV-00097	Sullivan County, NH
	<i>Judge: Hon. Martin Honigberg</i>	<i>Called by: Plaintiff</i>	<i>Type: Trial (Civil – Deed Dispute)</i>
1/17/2024	LSPA v Royce	220-2021-CV-00097	Sunapee, NH
	<i>Judge: n/a</i>	<i>Called by: Plaintiff</i>	<i>Type: Deposition (Civil – Deed Dispute)</i>
12/20/2023	Michelle Blechman v. SB 222, LLC	WC-2022-0455	Wakefield, RI
	<i>Judge: n/a</i>	<i>Called by: Plaintiff</i>	<i>Type: Deposition (Civil - Adverse Possession)</i>
10/24/2023	US v. Floy, et al	3:20-CR-58-KAD	US District Court, CT
	<i>Judge: Hon. Kari A. Dooley</i>	<i>Called By: US Attorney</i>	<i>Type: Trial (RICO: Criminal - Homicide/Gang Activity)</i>
7/19/2022	State CT vs. Lonnie Mebane	FBT-CR17-0299502-T	Fairfield County, CT
	<i>Judge: Hon. Alex Hernandez</i>	<i>Called By: State CT</i>	<i>Type: Trial (Criminal - Homicide)</i>
10/12/2021	Jenkins v. CPO Hospitality, et. al.	2018 L 013273	Cook County, IL
	<i>Judge: n/a</i>	<i>Called by: Plaintiff</i>	<i>Type: Deposition (Civil – Wrongful Death)</i>

8/18/2021	State of OH v. Anthony J. Hoskinson	CR-20-02-042	Van Wert County, OH
	<i>Judge: Hon. Martin D Burchfield</i>	<i>Called By: Defense</i>	<i>Type: Trial (Criminal - Burglary)</i>
7/17/2019	State of CT v. O. Pacheco, M. Varela, and F. Santiago	FBT-CR15-0288204-T FBT-CR16-0288290-T FBT-MV15-0435997-T	Fairfield County, CT
	<i>Judge: Hon. Robin Pavia</i>	<i>Called By: State CT</i>	<i>Type: Trial (Criminal - Home Invasion, Homicide)</i>
2/19/2019	State of CT v. David Henshaw	F02B-CR17-0295424-S	Fairfield County, CT
	<i>Judge: Hon. William Holden</i>	<i>Called By: State CT</i>	<i>Type: Trial (Criminal - Vehicular manslaughter)</i>