



CURRICULUM VITAE

Edward J. Primeau, CCI, CFC, PI

Audio, Video and Image Forensic Expert

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SUMMARY

I am an audio, video, and image forensic expert and have been practicing for over 34 years. I have expert witness testimony experience in courts at the state level. I have also performed several successful investigations of various International cases. My forensic practices for audio investigation include digital audio authentication, clarification, and comparison. As a video forensic expert, my practices include video authentication, clarification, analysis, and recovery. As an image forensic expert, my practices include image clarification, image authentication and image comparison.

As a forensic expert, I follow standard operating procedures outlined by the Scientific Working Group for Digital Evidence (SWGDE) and the National Institute of Standards and Technology (NIST). They outline the protocols and procedures for the intake, extraction, and handling of digital media evidence which requires documentation of each step. This ensures that the quality and integrity of digital media evidence is maintained throughout the seizure and extraction process. If protocols are not followed, digital media evidence becomes vulnerable to tampering or mishandling.

I understand that my duty as an expert witness is to assist the court by providing impartial, objective, unbiased and independent opinions uninfluenced by the party who has retained me or called me as a witness.

INTRODUCTION

In 1979, I began my career as an audio engineer and was trained to record and edit spoken word recordings such as training tapes and audiobooks. While employed at Ambience Recordings, I was asked to conduct an audio forensic examination for the FBI in Detroit. Years later, I left Ambience to pursue my career as a forensic expert. Since then, I have completed hundreds of successful audio and video forensic investigations which include, but are not limited to: audio & video forensic analysis, audio & video forensic enhancement, audio & video forensic authentication, and audio & video forensic recovery. I have testified in Federal, State, and Local courts, as well as the Judicial Tenure Commission and the Michigan Public Service Commission as an expert witness.

I help courts and law enforcement agencies understand the science and technology of audio and video forensics. My forensic philosophy is that authentication and clarification of audio or video media combine art as well as science. The methods that I use require attention to detail and scientific principles, complemented by an appreciation for clarity and aesthetics. My techniques are derived from both formal education and the application of skills gained by working in many forensic situations.

I look at forensics as an experimental science because there are no two cases that are the same. As a forensic expert, I conduct experiments that include variables and that measure how each outcome pertains to the scientific aspect of the case at hand. The forensic processes that I use to arrive at my opinions are accepted in the scientific community and are structured and methodological. I always take scrupulous work product notes that are a part of each case.

EMPLOYMENT HISTORY

Probation Officer

53rd District Court
Troy, Michigan
1978 – 1981

Audio Engineer & National Sales Manager

Ambiance Recording Studio
Farmington Hills, Michigan
1980 – 1988

CEO of Primeau Productions

Primeau Productions
17117 West 9 Mile Road
1984 – 2018

- Audio Producer
- Video Producer
- Audio Engineer
- Video Engineer
- Camera Operator
- Audio and Video Field Recording
- Director of Field Video Production
- Director of Live Convention Production
- Marketing Director
- Sales Manager
- Oversee operations of the business
- Duplication of CD's and DVD's
- NSA Spokesperson

Senior Partner & Forensic Expert

Primeau Forensics, LTD.
Rochester Hills, MI
1984-Current

- Perform forensic audio investigations
- Perform forensic video investigations
- Provide expert witness testimony
- Manage the forensic audio analysis unit

- Manage the forensic video analysis unit
- Provide instruction to educational institutions and conferences
- Leadership training, team building
- Produce blog articles on websites
- Sales Manager
- Oversee operations of the business
- Manage the Marketing division
- Review P&L statements
- Oversee accounting and auditing

EDUCATION

University of Detroit

Major in Communications, Minor in Criminal Justice
 Detroit, MI
 1979 – 1985

Resolution Video

Digital Video Processing Techniques
 June 30th – July 1st, 2021
 16 hours

- Explores the technical operations behind digital video evidence and a variety of programs that allow for playback, capture and enhancement.
- New and improved workflows for analyzing and enhancing both standard and proprietary video file formats are be discussed.

Resolution Video

Introduction to FFMPEG
 June 28th – June 29th, 2021
 16 hours

- Hands-on workshop with software that produces libraries and programs for handling multimedia data.
- Common analysis techniques including playback, analysis, and transcoding of digital video files.
- New and improved workflows for analyzing and processing both standard and proprietary video file formats.

iINPUT-ACE

Video Evidence Training Symposium

March 22nd – 25th, 2021

12 hours

- Video Investigation Units – How the Media is Leveraging Open-Source Intelligence to Conduct Forensic Video Examinations
- Civilian Oversight: The Influence of Video on Public Perception
- Video Examination and Admissibility in the Courtroom – Are you an Expert?
- Fusion of 3D Technologies and Imagery
- Advancements in Technology for Calculating Speeds
- Defending Against Recent Challenges to Video Evidence
- Fast Forward: Emerging Trends in Video Evidence

AES Audio Education

Virtual Mini-Conference

February 7th, 2021

3 Hours

- Presentations about the pedagogy and delivery of audio and music technology
- Resources for Teaching Acoustic Science to Audio Students
- Keynote Presentation: Machine Learning & Audio Education
 - Jonathan Wyner (AES President, iZotope Director of Education)

IAI International Educational Conference

Reno, Nevada

August 11th – 17th, 2019

6.5 Hours

- Forensic Gait Analysis
 - Basics of Interpreting Gait Evidence
 - The comparative ability of experts and non-experts to identify individuals based on their gait
 - Forensic Gait Analysis - quality assurance and competency
- Agency Stats
- Preparation Workshop for the Forensic Video Certification Examination

Introduction to Forensic Audio Analysis

Resolution Video

October 22nd – 24th, 2018

24 Hours

- Audio Core Competencies
 - Science and Physics of Sound
 - Speech Characteristics
 - Critical Listening
- Working With Audio
 - Equipment Configuration/Verification
 - Preliminary Examination/Basic Enhancement Techniques
 - Audio Enhancement Techniques and Processes
- Forensic Audio Best Practices
 - Audio Evidence Handling
 - Forensic Audio Workflow
 - Documentation
 - Standards

iZotope for Forensic Audio Analysis

Resolution Video

October 25th – 26th, 2018

16 Hours

- Advanced techniques of removing all types of noise
- Effects of harmonics on audio signals and how to correct
- Exporting settings and processing history for reporting
- Explanation and demonstrations of application module and plug-ins

Training in Digital Video Evidence Recovery

Resolution Video Workshop

September 12th – 14th, 2016

24 Hours

- Recovery guidelines and best practices for working with digital video systems
- Evidence recovery workflow
- Understanding digital video security systems
- Introduction to computer technologies and computer networking
- Recovering the best evidence from digital video systems
- Maintaining chain of custody
- Submitting evidentiary copy

Hard Drive Imaging Workshop

Resolution Video Workshop

September 15th – 16th, 2016

16 Hours

- Technological background and guidance for imaging and analyzing seized DVRs
- Proper procedures for imaging hard drives from DVRs
- Tools needed and analysis techniques for hard drives
- Troubleshooting steps in the event of DVR failure

Training in Voice Identification

The New York Institute of Forensic Audio

November 9th – 13th, 2015

40 Hours

- Emphasis on audio/video enhancement, authenticity, and forensic voice identification
- Creation of exemplar recordings
- Voice biometric analysis
- Preparation of files for comparison analysis
- Operation of Easy Voice and SIS II Software
- Aural Spectral voice comparison analysis
- Difference between telephonic and live recording testing

Training in Digital Video Processing Techniques

Resolution Video Workshop

September 30th – October 2nd, 2014

24 Hours

- Technical operations behind digital video evidence
- Programs that allow for playback, capture, and enhancement
- Improved workflow for analyzing and enhancing standard and proprietary video

IAI International Educational Conference

Minneapolis, Minnesota

August 10th – 16th, 2014

6 Hours

- Forensic Digital Image Processing Tips and Techniques
- The Fundamentals of Processing of Digital Evidentiary Photography
- Introduction to Forensic Gait Analysis

Training in Forensic Authentication of Digital Audio

The University of Colorado Denver, National Center of Media Forensics
Denver, Colorado

September 9th – 11th, 2013

24 Hours

- The latest forensic audio authentication techniques
- Advanced principles of forensic audio authentication
- Limitations of the forensic expert
- Digital evidence seizure and acquisition

Training in Video Analysis: Digital Sentry Configuration

Pelco Global Training Institute

Indianapolis, Indiana

April 2008

40 Hours

- Programming and Operating CCTV Systems
- Analog to Digital Conversion
- Point, Tilt, Zoom Camera Operation
- Frame Rate Education and Workshop

CERTIFICATE TRAINING

Audio & Video Identification/Restoration/Authentication Expert

TASA (Technical Advisory Service for Attorneys)

1996 – Present

Registered Investigator (RI)

ACFEI (American College of Forensic Examiners International)

2010

Certified Forensic Consultant (CFC)

ACFEI (American College of Forensic Examiners International)

2012

Diplomate Status

ACFEI (American College of Forensic Examiners International)

2014

LICENSES

Licensed Private Investigator

State of Michigan Department of Licensing and Regulatory Affairs

License No. 3701207275

2018 – Current

PROFESSIONAL ASSOCIATION MEMBERSHIPS

- Current Member of Audio Engineering Society (AES), since 2005
- Current Member of the International Association for Identification (IAI), since 2006
- Member of the American College of Forensic Examiners (ACFE), 2006 – 2017

MEDIA AND PUBLICATIONS

Published author of audio and video forensics articles (LEVA, Homeland Security magazine, and American College of Forensic Examiners International.)

2021: Time Magazine article and documentary contributions about the Terrance Franklin killing by Minneapolis Police. I forensically enhanced the good Samaritan recording to determine additional information.

2021: Appearance for Lion TV for forensic audio enhancement of cassette recording related to the Robert Kennedy assassination.

2021: Appeared on 20/20 for the JonBenét Ramsey case for ABC News

2019: Appeared on TV series 'Unidentified: The Hunt for Contact' for The Discovery Channel as a Video Forensic Expert.

2018: Appeared on CNN for Forensic Audio Analysis to authenticate and enhance recordings produced by Michael Cohen of President Trump.

2016: Completed Biometric Voice Identification for The City of Warren, Michigan regarding allegations against Warren, Michigan Mayor Jim Fouts

2015: *Los Angeles Times reaffirms decision that Ted Rall's blog post did not meet its standards:* the LAPD records and other evidence "raise serious questions about the accuracy" of the blog post, and that Rall's work would no longer appear in The Times.

2014: *Caught on Video – Cameras, Computers, and Control: Convenience or Conspiracy?* This ACFEI peer-reviewed article provides an inside look at the ever-expanding role of today's security cameras and surveillance videos, used as a means of monitoring public activity and protecting citizens.

2013-2014: I worked with body camera manufacturer VIEVU and helped with their research and development of their body-worn cameras, which are primarily sold to more than 4,000 agencies in 16 countries. My team and I helped them test the field of view (FOV) for their cameras. We researched the various FOV options to learn what degree of a lens was most optimal in body-worn camera situations for forensic enhancement applications.

2013: *JFK's Last Day* - I was asked to enhance the sound quality and combine two separate recordings from the day of President John F Kennedy's assassination. I was interviewed by CNN regarding my findings.

2013: *I'm the original voice of Siri* – I was interviewed by Jessica Ravitz for CNN regarding the alleged voice of Apple's SIRI, a woman by the name of Susan Bennett.

2011: Was interviewed for the article *CCTV puts eyes on London rioters*

2010: Consulted as a Voice ID Expert for the Wall Street Journal

INSTRUCTIONAL EXPERIENCE

- **2014 to 2018: University of Detroit Law School:** Lectured annually about what a forensic expert is and best practices for attorneys when working with a forensic expert
- **2015 & 2016: Clarkston High School:** General Forensic Sciences Lecture
- **2016: Duquesne University:** Gave a presentation during the seminar 'More Than Meets the Ear: Audio Forensics from JFK to Trayvon Martin'
- **2017: Oakland University, Class of Audio Production for Film:** Lectured on Audio and Video Forensics
- **2019: World Game Protection Conference, Las Vegas, Nevada:** Gave a presentation on the topic of 'Video Forensics in the Gaming Industry'
- **2019: Troy High School, Troy, Michigan:** Gave a presentation on the basics of audio and video forensics.
- **2019: Troy Police/Fire Training Facility, Troy, Michigan:** Gave a presentation on the basics of audio and video forensics for the InfraGard group.

PREVIOUS CASE EXPERIENCE

I have worked on several audio, video, and image forensic investigations, ranging from cases in the United States as well as many other countries internationally. The following is a compilation of several cases I have worked on and testified in as an expert witness:

1. Estate of Mollie Falack (Deceased)

Attorney Andrew DeMaio
Judge Joseph P. Quinn
Superior Court of New Jersey
Chancery Division Probate, Monmouth County

- Forensic Audio Analysis
- Forensic Audio Authentication

2. People V. Little

Attorney Stefanie Lambert
Judge Jan Miner
Bay County Court
Bay City, Michigan – January 28, 2021

- Forensic Audio Analysis
- Forensic Audio Enhancement

3. The People of The State of Colorado v. Michael Blagg

Attorney Douglas K. Wilson
Attorney Tina Fang
Colorado State Public Defender
Judge Tamara Russell
District Court, Jefferson County
Golden, Colorado – February 20th – March 30th, 2018

- Forensic Audio Analysis
- Forensic Audio Enhancement
- Testified in the field of forensic audio enhancement and analysis.

4. Robert Riesenman V. John Baser; Laurie Baser; James Lovejoy; Jason Cavallini

Attorney Greg Johnson
Lewis Brisbois Law Firm
Judge Warren Stracener
Cameron Park Branch of Superior Court, Eldorado County
Sacramento, California – December 2017

- Forensic Evidence Recovery
- Forensic Video Enhancement
- Forensic Video Authentication
- Forensic Exemplar Creation and Comparative Analysis

- Testified in the field of forensic evidence recovery and forensic video enhancement, authentication, and comparative analysis.

5. United States V. Nicholas Djokich

Attorney Jim Feldman

Senior Judge Mark L. Wolf

Boston Federal Court

Boston, Massachusetts – 2017

- Forensic Audio Authentication
- Testified in the field of forensic audio authentication

6. Administrative Hearing, Reeths-Puffer School

Attorney Eric Delaporte

Delaporte Law, PLLC

Okemos, Michigan – 2017

- Forensic Video Enhancement
- Forensic Identification and Analysis
- Testified in the field of forensic video clarification, identification, and analysis.

7. Charlestine Lindsey, et al. V. Louisville SW Hotel, LLC, et al.

Attorney Megan O'Reilly

Blackburn Domene & Burchett

Judge Angela McCormick Bisig

Jefferson County Circuit Court

Louisville, Kentucky – January 2017

- Forensic Video Analysis
- Forensic Video Enhancement

8. Reddie V. Crawford County, City of Grayling, John Klepadlo and Alan Somero

Michelle Van Buren

Personal Representative for the Estate of William Reddie; deceased and William

Attorney Chris Trainor

Judge Thomas L. Ludington

Bay County District Court

White Lake, Michigan – 2016

- Forensic Video Analysis
- Forensic Video Authentication
- Testified in the evidentiary hearing in the field of forensic analysis and authentication

9. State V. Timothy Barb

Attorney John E. Curran

Curran & Associates

Randolph County Circuit Court

Huntsville, Missouri – 2016

- Forensic Video Enhancement
- Testified in the field of forensic video clarification

10.State of Oregon V. Sassarini

Attorney Rosalind Lee

Curry County Circuit Court

Eugene, Oregon – July 2016

- Forensic Video Authentication
- Testified in the field of forensic video authentication

11.Patrick and Merry Hitchcock V. Art Jensen

Attorney Todd Nye

Judge Robert Bennett

34th Circuit Court

Roscommon, Michigan – 2016

- Forensic Video Enhancement
- Forensic Video Authentication
- Testified in the field of forensic video clarification and authentication

12. People V. Djordje Jankulov

Attorney David Kramer

Judge Travis Reeds

52nd District Court

Novi, Michigan – 2016

- Forensic Video Analysis
- Forensic Video Enhancement
- Video Evidence Presentation
- Testified in the field of forensic video clarification and analysis

13. Commonwealth V. Elkins

Attorney Jonah Stevens

Hamilton and Stevens, PLLC

Pike District Court, Division I

Pikeville, Kentucky – 2016

- Forensic Video Enhancement
- Forensic Video Identification Analysis
- Testified in the field of forensic video clarification, identification, and analysis

14. Jones V. Union Pacific Railroad

Attorney Shawn Warner
Shawn A. Warner Associates, Ltd.
Judge Joan Lefkow
Everett M. Dirksen U.S. Courthouse
Chicago, Illinois – September 2016

- Forensic Video Analysis
- Forensic Video Authentication
- Testified in the field of forensic video authentication and analysis

15. Stern V. Shammas

Attorney Andrew St. Laurent
Judge Nicholas G. Garaufis
Federal Court, Eastern District
New York, New York – July 2015

- Forensic Video Authentication
- Testified in the field of forensic video authentication and analysis

16. Reyes v. Tesoro

Attorney William Dritsas
Seyfarth Shaw, LLP
Oakland, California – September 2015

- Forensic Audio Analysis
- Forensic Voice Identification
- Testified in the field of forensic audio analysis and voice identification

17. People V. Kethlie Joseph Medford Center for Living

New York Attorney General, Veronica Bindrim-MacDevitt
Judge Collins
Arthur Cromarty Court Complex
Hauppauge, New York – May 2015

- Forensic Video Analysis
- Forensic Video Enhancement
- Multi-Camera Visual Synchronization
- Testified in the field of forensic video analysis and clarification

18. State V. Bailey

Attorney Tom Barr
Judge Stephen Heimann
Bartholomew County Circuit Court
Columbus, Indiana – September 4, 2014

- Forensic Audio Authentication
- Testified in the field of forensic audio authentication

19. State of Maryland V Shirley Bolton

Attorney Ken Ravenell

Baltimore, Maryland – August 2013

Attorney Stanley Reed

Ellicott City Circuit Court House

Bethesda, Maryland – October 2014

- Forensic Video Authentication
- Forensic Video Enhancement
- Evidence Retrieval on Location
- Testified in the field of forensic video authentication and clarification

20. Correia et al. V. The Town of Framingham et al.

Attorney Ilyas Rona

Milligan Coughlin

United States Federal District Court of Massachusetts

Boston, Massachusetts – 2013

- Forensic Video Enhancement
- Testified in the field of forensic video clarification

21. Steve Hicks V. City of Evansville, Indiana

Mike Hayden

Evansville, Indiana – December 2013

- Forensic Video Enhancement
- Testified in the field of forensic video clarification

22. People V. Eric Litwin

Attorney Neny Uche

Attorney Tamara Walker

Judge Ryan

LaSalle County 13th Judicial Circuit Court

Chicago, Illinois – July 2013, October 2013, February 2014

- Forensic Video Authentication
- Testified in the field of forensic video authentication

23. United States of America V. Anthony Boykin

Attorney Lisa Scolari

Law Offices of Lisa Scolari

US District Judge Colleen McMahon

US Federal District Court, Southern District

New York, New York – February 2013

- Forensic Video Enhancement
- Forensic Image Enhancement
- Testified in the field of forensic video and image clarification

24. People V. Louis Moux

Attorney Renee Hill
Attorney Murray Richmond
Law Offices of Murray Richmond
Bronx Supreme Criminal Court
Bronx, New York – 2010

- Forensic Video Enhancement
- Forensic Video Authentication
- Testified in the field of forensic video clarification and authentication

25. U.S. Gold and Diamonds V. JKD Diamond Brokers

Attorney Dianne Marx
Federal Court
Dayton, Ohio – November 3rd, 2008

- Forensic Video Authentication and Analysis
- Testified in a deposition in the field of forensic video authentication and analysis

26. Haddad V. Indiana Pacers

Attorney Steven Potter
Potter, DeAgostino, O'Dea, and Patterson
Honorable Judge Anna Diggs Taylor
Magistrate Judge Donald A. Scheer
United States Federal District Court, Eastern District
Auburn Hills, Michigan – September 19th, 2006

- Forensic Video Enhancement
- Testified in the field of forensic video clarification

27. People of Ohio V. Wendell Jackson

Attorney Charles McKinney
Federal District Court, Southern District
Eastern Division Courthouse
Columbus, Ohio – 2006

- Forensic Audio Authentication
- Testified in the field of forensic audio authentication

28. People of the State of Illinois V. Michael Hay

Attorney Patrick Coolahan
Coolahan, DeMeo & Beard, P.C.
DuPage County Circuit Court
Oak Brook, Illinois – 2005

- Forensic Video Enhancement
- Testified in the field of forensic video authentication

29. David Brinker V. Municipality of Marysville

Attorney Margolis Edelstein

Pittsburgh, Pennsylvania – 2004

- Forensic Video Authentication
- Testified in the field of forensic video authentication via telephone

30. E2 Disaster - People ex rel. City of Chicago V. Le Mirage, INC.

Attorney Camille Conway

Pugh, Jones & Johnson

Chicago, Illinois – 2003

- Forensic Video Authentication

31. The Judicial Tenure Commission V. Ferrara

Attorney Mark Bendure

Bendure & Thomas

Judge Ferrara

Detroit, Michigan – 1998

- Forensic Audio Authentication
- Voice Identification
- Testified in the field of digital forensic audio authentication

SELECT INTERNATIONAL CASES

Indian Forensic Lab

Delhi, India – 2013

- Forensic Audio Authentication

Lila Pigliafiori

Mount Isa, Qld Australia – 2012

- Forensic Video Analysis
- Forensic Video Enhancement

Attorney Trond Sefastsson

Rättskonsulterna Sverige Ab

Stockholm, Sweden – 2012

- Forensic Video Analysis

SELECT LAW ENFORCEMENT CASES THAT I HAVE CONSULTED IN

The following is a list of cases that I was retained to work on for different law enforcement departments across the US.

1. Jerime Mitchell v City of Cedar Rapids

Attorney Elizabeth Jacobi

Attorney for City of Cedar Rapids

Cedar Rapids, Iowa – December 9th, 2020

- Forensic Audio Analysis
- Forensic Audio Comparison
- Opposing expert rebuttal
- On-site testing at Police Department

2. The People of the State of MI v Sandra Layne

Detective Brad Boulet

West Bloomfield Township Police

West Bloomfield, Michigan – 2013

- Forensic Audio Enhancement
- Forensic Audio Identification and Analysis

3. St. Louis Metropolitan Police Department

Sergeant Kirk Deeken

St. Louis, Missouri – 2013

- Forensic Audio Enhancement
- Forensic Video Enhancement

4. Sparks Police Department

Detective Dorothy Peterson

Sparks, Nevada – 2011

- Forensic Video Enhancement
- Forensic Audio Enhancement
- Forensic Transcription

SELECT CASES THAT I HAVE BEEN DEPOSED

State of Arizona v Cornel Jenson Cooke

Deposition for Attorney Krystal Rivero and Robin Puchek, Mohave County Public Defender's Office

Virtual (Zoom) – April 8th, 2021

White v Super Gasoline Inc., et al

Deposition for Attorney Sanford Friedman, Law Office of Sanford A Friedman, LLC

Virginia – June 10th, 2019

Hamilton v Speight et al.

Deposition for Pierce Bainbridge Beck Price & Hecht LLP

Detroit, Michigan – January 8th, 2019

Robert Riesenman v John Baser; Laurie Baser; James Lovejoy; Jason Cavallini

Deposition for Greg Johnson

Sacramento, California – October 27th, 2017

Thorson v Freedom Graphics

Deposition for Paul O'Toole

Pontiac, Michigan – August 29th, 2017

Burton v Circle K

Deposition for Robert Ortiz

Albuquerque, New Mexico – February 22nd, 2017

Pamela Graszl v Board of Education of Bloom-Carroll Local School District

Deposition for Fred Bean

Holland, Michigan – September 14th, 2015

Michelle Van Buren v Crawford County, City of Grayling, John Klepadlo and Alan Somer

Deposition for Chris Trainor

White Lake, Michigan – September 10th, 2015

Murphy v Southeastern

Deposition for Danny Henderson

Troy, Michigan – June 16th, 2015