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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 audio books. 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 combines 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 a 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. My 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.

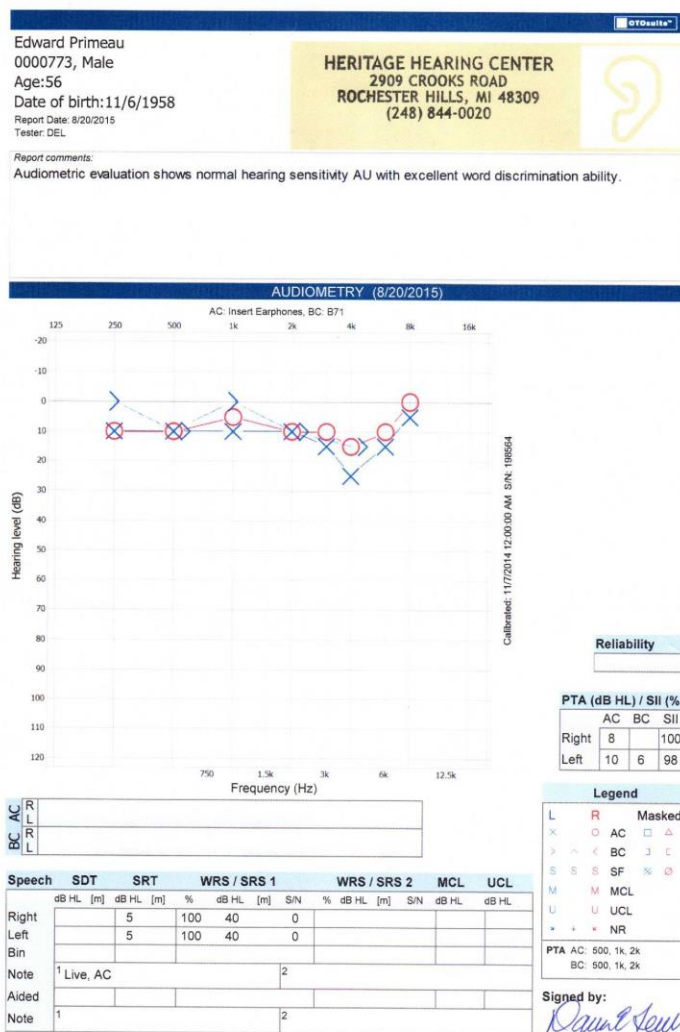
EDUCATION AND EXPERIENCE

- **1978-1981:** Probation Officer, 53rd District Court, Troy, Michigan
- **1979-1985:** University of Detroit (Communications major, Criminal Justice minor)
- **1980-1988:** Ambience Recording Studio, Audio Engineer/National Sales Manager
- **2008:** Completed video analysis training with Pelco Global Training Institute
- **2013:** Completed training in Forensic Authentication of Digital Audio at the National Center of Media Forensics in September of 2013
- **2014:** Attended and took classes at the 99th IAI International Educational Conference.

Course topics included:

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

- **2014:** Completed Resolution Video's Workshop: Digital Video Processing Techniques in September of 2014
- **2015:** Completed Voice ID and Speech Analysis training with Owen Forensics in November of 2015
- **2015:** Completed a Word Discrimination Test at Heritage Hearing Center in Rochester Hills, Michigan. Results below:



- **2016:** Completed Resolution Video's Workshop: Digital Video Evidence Recovery in September of 2016
- **2018:** Completed Resolution Video's Intro to Audio Forensics and iZotope Workshops in October of 2018

ORGANIZATIONS, MEMBERSHIPS AND CERTIFICATIONS

- **1996 - present:** TASA audio and video identification/restoration/authentication expert
- **2005 - present:** Member of Audio Engineering Society (AES)
- **2006 - present:** Member of International Association for Identification (IAI)
- **2006 - 2017:** Member American College of Forensic Examiners (ACFE)
- **2010:** Earned Registered Investigator designation (RI) from ACFEI
- **2012:** Earned Certified Forensic Consultant designation (CFC) from ACFEI
- **2014:** Received Diplomate Status from ACFEI
- **2018:** Licensed as a Private Investigator with The State of Michigan Department of Licensing and Regulatory Affairs

MEDIA AND PUBLICATIONS (ARTICLES AVAILABLE ON REQUEST)

- Published author of audio and video forensics articles (LEVA, Homeland Security magazine and American College of Forensic Examiners International.)
- **2010:** Consulted as a Voice ID Expert for the Wall Street Journal
- **2011:** Was interviewed for the article *CCTV puts eyes on London rioters* regarding
- **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 Jessiva Ravitz for CNN regarding the alleged voice of Apple's SIRI, a woman by the name of Susan Bennett.
- **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.
- **2014:** Author of the peer reviewed book "That's Not My Voice! A Practical Understanding of the Art and Science of Modern Voice Identification"
- **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.
- **2016:** Completed Voice ID for The City of Warren, Michigan regarding allegations against Warren, Michigan Mayor Jim Fouts

TEACHING

- **2014 to present: University of Detroit Law School:** I lecture annually 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
- **2018: Underground Producers Alliance:** Mentor for students who have chosen audio forensics as a career path

SELECT CASES THAT I HAVE CONSULTED & TESTIFIED IN

US Cases:

1. Attorney Mark Bendure

Bendure & Thomas

Detroit, MI

Defense -Forensic Audio Authentication

The Judicial Tenure Commission V. Ferrara

1998

I provided forensic services for the defendant, Judge Ferrara, with Counsel Mark Bendure. My responsibilities included voice identification and examining the tapes for tampering. The Executive Director, Allen Sobel, represented the JTC. **I testified in this case in Detroit, Michigan in front of the Judicial Tenure Commission.**

2. Attorney Camille Conway

Pugh, Jones & Johnson

Chicago, IL

Prosecution – Forensic Video Authentication

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

2003

This was the well-publicized Chicago nightclub stampede disaster that made national news. I was retained by the city attorney of Chicago to examine a nightclub's digital

surveillance system. The system had been tampered with and the original footage was not available to examine.

Several people were trampled while trying to evacuate a nightclub on Michigan Avenue. The surveillance system incorporated a digital video recorder. One of the owners was behind the accidental erasure of all video evidence.

3. Attorney Margolis Edelstein

Pittsburgh, PA

Prosecution – Forensic Video Authentication

David Brinker V. Municipality of Marysville

2004

I provided forensic services for the Municipality of Marysville to analyze general police department tapes for authenticity and possible alteration. I was hired by the police department in Marysville, Pennsylvania. **I testified via telephone.**

4. Attorney Patrick Coolahan

Coolahan, DeMeo & Beard, P.C.

Oak Brook, IL

Defense – Forensic Video Enhancement

People of the State of Illinois V. Michael Hay

2005

I provided forensic services for the defendant as a video expert. A CCTV video tape of a jewelry store robbery was provided and I captured some frames from the surveillance video and clarified them. I then made several prints of the captured video frames and sent the prints and video files (on a CD). **I testified to my findings in the DuPage County Circuit Courthouse in Oak Brook, Illinois.**

5. Attorney Charles McKinney

Columbus, Ohio

Defense – Forensic Audio Authentication

People of Ohio V. Wendell Jackson

2006

This is a criminal case **I testified** in where a CI made audio cassette recordings of a police officer during business transactions. He tried to entrap the officer with receiving stolen merchandise. I examined the cassette recordings **and testified in the Federal District Court of the Southern District of Ohio, Eastern Division Courthouse in Columbus, Ohio** for this criminal case and determined that they could not be authenticated. We won the case which went on to a civil case I also testified in.

6. Attorney Steven Potter

Potter, DeAgostino, O'Dea and Patterson

Auburn Hills, Michigan

Defense – Forensic Video Analysis and Enhancement

Haddad V. Indiana Pacers

2006

I was the video expert for the defense, the Indiana Pacers, during this one week trial, took the stand once to explain the video evidence I had assembled from all network sources, including ESPN, Fox Midwest and WB20. **I testified in The United States Federal District Court, Eastern Division of Michigan.** The jury returned a not guilty verdict on behalf of the Pacers.

7. Attorney Dianne Marx

Dayton, Ohio

Defense – Forensic Video Authentication and Analysis

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

2008

This case was in the Federal Court in Dayton Ohio on November 3rd, 2008. It involves my examination of an Integral Technologies digital video CCTV system examination and authentication of video evidence and the operational characteristics of the system itself. Although I did not testify at trial, I was deposed and worked closely with the attorneys to have the opposing expert removed from the case and helped write numerous interrogatories that eventually proved the evidence was altered.

On November 24th 2008 the jury awarded my client a total of 6.9 million dollars in loss and compensatory damages as well as legal fees.

Complete article appears in the Dayton Business Journal November 25th 2008.

<http://dayton.bizjournals.com/dayton/stories/2008/11/24/daily21.html>

8. Renee Hill & Murray Richmond

Law Offices of Murray Richmond

Bronx, New York

Defense - Forensic Video Enhancement and Video Authentication

People V. Louis Moux

2010

I testified in the Bronx Supreme Criminal Court in New York about a digital video file being used as evidence that was not an original. It included anomalies and could not be authenticated.

9. Attorney Lisa Scolari

Law Office of Lisa Scolari

New York, NY

Defense - Forensic Video Enhancement

United States of America V. Anthony Boykin**2013**

I was able to restore and clarify images from a video to assist in this case for which I testified in front of US District Judge Colleen McMahon in the US Federal District Court in the Southern District of New York.

10. Attorney Neny Uche & Attorney Tamara Walker

Chicago, IL

Defense – Forensic Video Authentication

People V. Eric Litwin

July 2013, October 2013, February 2014

I testified, twice, in the LaSalle County 13th Judicial Circuit Court in Illinois in front of Judge Ryan on a motion to dismiss hearings and a third time at trial for this video authentication case. I authenticated video from both the Utica Police Department and the Illinois Police Department.

On September 17, 2015, the plea of guilty was reversed by the Appellate Court of Illinois, Third District.

<http://www.illinoiscourts.gov/Opinions/AppellateCourt/2015/3rdDistrict/3140429.pdf>

11. Client: Officer Steve Hicks

Evansville, IN

Defense – Forensic Video Enhancement

Police Department Internal Affairs Investigation

Steve Hicks V. City of Evansville, Indiana

2013

I was retained by Officer Steve Hicks of the Evansville, IN Police Department. Officer Hicks was under departmental investigation. I examined video from security cameras both

inside and outside the establishment. **I testified in this case but the testimony was not effective due to the fact that I was not able to examine the actual video cameras or equipment.**

12. Attorney Ilyas Rona

Millighan Coughlin

Boston, MA

Civil Case – Plaintiff

Forensic Video Enhancement

Correia et al. v. The Town of Framingham et al.

2013

I testified in the United States Federal District Court of Massachusetts on digital video enhancement from a surveillance video that had recorded a confrontation taking place.

13. Attorney Ken Ravenell & Attorney Stanley Reed

Baltimore, MD & Bethesda, MD

Criminal Case, Defense – Forensic Video Authentication and Enhancement

State of Maryland V. Shirley Bolton

2013, 2014

I testified on surveillance video for this case at the Ellicott City Circuit Court House in Maryland. I recovered video evidence from a home surveillance system in order to enhance and identify a series of events that took place. After the evidence was recovered, I assisted the defendant and the court with the ability to view this video during trial and the sentencing hearing.

14. Attorney Tom Barr

Nashville, IN

Criminal Case , Defense – Forensic Audio Authentication

State V. Bailey

2014

I was retained to conduct a digital audio authentication examination in this criminal case. I discovered the audio was edited and **testified for six hours in Judge Stephen Heimann's Court in Bartholomew County Circuit Court.**

15. Attorney Veronica Bindrim-MacDevitt

Office of the Attorney General

Medicaid Fraud Control Unit

Hauppauge, NY

Criminal Case – NY Attorney General Suffolk County – Forensic Video Analysis and Enhancement

People V. Kethlic Joseph/Medford Center for Living

2015

I worked for the New York Attorney General to create a side by side demonstrative video from a four hour period of CCTV surveillance footage from a nursing home. **I testified in the Arthur Cromarty Court Complex in front of a double grand jury and Judge Collins.**

16. Attorney Andrew St. Laurent

New York, NY

Plaintiff - Forensic Video Authentication

Stern V. Shammass

2015

I was retained to authenticate analog and video recordings. **I testified in Federal Court in the Eastern District of New York** before Judge Nicholas G. Garaufis, both with and without presence of the jury.

17. Attorney Shawn Warner

Shawn A. Warner Associates, Ltd.

Chicago, IL

Civil Case, Plaintiff – Forensic Video Analysis and Authentication

Jones V Union Pacific Railroad

2016

I forensically analyzed video evidence from Union Pacific Railroad. **I then testified in the Northern District of Illinois Federal Court, in Chicago, Illinois** about the mobile digital video recorder evidence that was presented in this case.

18. Attorney Jonah Stevens

Hamilton and Stevens, PLLC

Pikeville, KY

Criminal Case , Defense – Forensic Video Enhancement & Identification

Commonwealth V. Elkins

2016

I forensically enhanced and stabilized video evidence extracted from YouTube. **I then testified in the Pike District Court, Division I, in Pikeville, Kentucky** about the forensic identification and analysis I performed on the video.

19. Attorney David Kramer

Novi, MI

Criminal Case , Defense – Forensic Video Analysis and Enhancement

People V. Djordje Jankulov

2016

I analyzed and enhanced a Novi Police Dash Cam video to present to the Trier of Fact to determine if the vehicle crossed the center line. I played my work product at the bench trial and **testified in the 52nd District Court in Novi, Michigan** before Judge Travis Reeds.

20. Client: Art Jensen

Houghton Lake, MI

Criminal Case, Defense – Forensic Video Enhancement and Authentication

Patrick and Merry Hitchcock V. Art Jensen

2016

I was retained to enhance CCTV footage of vandalism that occurred on Mr. Jensen's property. I testified at a PPO Hearing in the 34th Circuit Court in Roscommon, Michigan before Judge Robert Bennett.

21. Attorney Rosalind Lee

Eugene, Oregon

Criminal Case, Defense – Forensic Video Authentication

State V. Sassarini

2016

I testified at a Motion in Limine hearing at the Circuit County Court of the State of Oregon in Curry County that the 3 video clips I was asked to authenticate were not original.

22. Attorney John E. Curran

Curran & Associates

Osage Beach, Missouri

Criminal Case, Defense – Forensic Video Enhancement

State V. Timothy Barb**2016**

I testified in Randolph County Circuit Court in Huntsville, Missouri about a CCTV video recording from a convenience store for the Defense.

23. Attorney Chris Trainor

White Lake, Michigan

Evidentiary Hearing - Forensic Video Analysis and Authentication

Michelle Van Buren, Personal Representative for the Estate of William Reddie, deceased and William Reddie V. Crawford County, City of Grayling, John Klepadlo and Alan Somero

2016

I testified at this evidentiary hearing in Judge Thomas L. Ludington's Court on Washington Ave. in Bay City, Michigan.

24. Attorney Megan O'Reilly

Blackburn Domene & Burchett

Louisville, Kentucky

Civil Case - Forensic Video Analysis and Video Enhancement**Charlestine Lindsey, et al. V. Louisville SW Hotel, LLC, et al.****2017**

I testified at the Circuit Court located at 700 West Jefferson Street in Louisville, Kentucky in regards to CCTV footage of a drowning in a hotel pool.

25. Attorney Eric Delaporte

Delaporte Law, PLLC

Okemos, MI

Civil Case - Forensic Video Enhancement & Identification**2017**

I testified in a Reeths-Puffer school administrative building in regards to the work products I enhanced from the video evidence and my opinion about the events that took place in the video.

26. Attorney Jim Feldman

Ardmore, PA

Defense - Forensic Audio Authentication**United States V. Nicholas Djokich****2017**

I testified in front of Senior Judge Mark L. Wolf at the Boston Federal Court in Boston, Massachusetts. The court was hearing the defendant's plea on whether or not to have a retrial based on new audio evidence information.

27. Attorney Greg Johnson

Lewis Brisbois Law Firm

Sacramento, CA

Civil Case - Forensic Evidence Recovery/Video Enhancement/Exemplar Creation**Robert Riesenman V. John Baser; Laurie Baser; James Lovejoy; Jason Cavallini****2017**

I worked for the plaintiff in a civil litigation involving a business related theft. I performed Evidence Recovery, Video Enhancement and Exemplar Creation for Video Authentication.

I testified in front of Judge Warren Stracener at the Cameron Park Branch of Superior Court of the county of El Dorado.

SELECT INTERNATIONAL CASES THAT I HAVE CONSULTED & TESTIFIED IN

28. Trond Sefatsson

Rattskonsulterna AB

Sweden

Forensic Video Analysis**2012**

I was asked to examine still images from a bank robbery committed in Nassjo, Sweden in 2002. I was able to determine the number of people in the images as well as their height.

29. Lila Pigliafiori

Mount Isa, Qld Australia

Forensic Video Enhancement**2012**

I clarified and enlarged images from a surveillance video that showed an incident with an individual being struck by a car door. I was able to prove that the individual did not suffer the amount of physical injuries they claimed to from the door, but instead, that the injuries occurred after the incident when the individual instigated a fight.

30. Indian Forensic Lab

Delhi, India

Forensic Audio Authentication**2013**

I was asked to conduct an investigation in regards to an audio recording. I was able to discover if there were any edits or anomalies in the recording.

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.

31. Detective Dorothy Peterson

Sparks Police Department

Sparks, Nevada

Prosecution - Forensic Video and Audio Clarification**2011**

I assisted Detective Peterson and the Sparks Police Department with both the audio restoration and transcription of a seven hour interrogation video. I did not testify in this case, however, I was on the witness list for the prosecution.

32. Sergeant Kirk Deeken

St. Louis Metropolitan Police Department

St. Louis, MO

Internal Affairs - Forensic Audio and Video Enhancement**2013**

I was retained by the St. Louis Metropolitan Police Department Internal Affairs to conduct audio and video enhancement on a dash cam footage of a high speed police chase and OnStar satellite audio recording.

33. Detective Brad Boulet

West Bloomfield Township Police

West Bloomfield, MI

Prosecution - Forensic Audio Enhancement and Sound Identification**The People of the State of MI V. Sandra Layne****2013**

I worked for the West Bloomfield, Michigan PD to identify and determine the number of shots that were fired during a homicide.

SELECT CASES THAT I HAVE BEEN DEPOSED IN

1. Deposition for Danny Henderson:

Murphy V. Southeastern (6/16/15)

2. Deposition for Chris Trainor:

Michelle Van Buren V. Crawford County, City of Grayling, John Klepadlo and Alan Somero (9/10/15)

3. Deposition for Fred Bean:

Pamela Graszl V. Board of Education of Bloom-Carroll Local School District (9/14/15)

4. Deposition for Robert Ortiz:

Burton V. Circle K (2/22/17)

5. Deposition for Paul O'Toole:

Thorson V. Freedom Graphics (8/29/17)

6. Deposition for Greg Johnson:

Robert Riesenman V. John Baser; Laurie Baser; James Lovejoy; Jason Cavallini (10/27/17)

7. Deposition for Pierce Bainbridge Beck Price & Hecht LLP:

Hamilton V. Speight et al. (1/8/19)