



## **CURRICULUM VITAE**

### **Michael A. Primeau, CFVT**

Audio, Video and Image Forensic Expert

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Revised: 2/2/2022

## SUMMARY

I am an audio, video, and image forensic expert and have been practicing for 9 years. I have expert witness testimony experience in courts at the state level. I have also performed several successful investigations on 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 are 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.

## EMPLOYMENT HISTORY

### **Partner & Forensic Expert**

Primeau Forensics, LTD.  
Rochester Hills, MI  
2012 - Present

- Perform forensic audio investigations
- Perform forensic video investigations
- Perform forensic image investigations
- Provide expert witness testimony
- Manage the forensic audio analysis unit
- Manage the forensic video analysis unit
- Director of IT (networking, data management, computer maintenance, etc.)
- Manage internet marketing director
- Manage web presence and websites
- Provide instruction to educational institutions and conferences
- Leadership training, team building
- Produce blog articles on websites

## EDUCATION

### **Bachelor of Science Degree**

Major in Audio Engineering Technology  
Lawrence Technological University  
Southfield, MI  
2012 – 2018

### **Amped Authenticate**

Amped – Online  
June 21-25<sup>th</sup>, 2-21  
20 Hours

This is an intermediate and expert-level course designed for users who are seeking to use Amped Authenticate for their investigations. Students will learn the techniques necessary to perform authentication analysis on digital images in a forensic science setting as well as to package, deliver, and present those findings in court. The course is a mixture of lecture and hands-on. Students will obtain the knowledge and skills required to properly analyze digital images with a workflow compatible with forensic needs and constraints.

### **iINPUT ACE Operator Certification**

iINPUT ACE - Online  
June 1st – 2<sup>nd</sup>, 2021  
8 Hours

- User-Interface Orientation
- Playback & User Interface
- Creating Markers
- Creating Subclips
- Intro to File Conversion
- Standard Output Node
- Introduction to Projects
- Demonstrative Examples
- Intro to the Narrative Report
- Video Terminology
- Intro to Hashing
- Working with Projects
- Investigation Workflows
- Real Case Walkthroughs
- Creating Demonstrative Exhibits
- Canvas Editor
- Concatenate Node

## **iINPUT ACE Examiner Certification**

iINPUT ACE - Online

June 7th – 9th, 2021

12 Hours

- Frame Rate Adjustments
- Intro to Compression
- Filters and Advanced Processes
- Resizing and Deinterlacing
- Preparing Workflows
- Enhancement
- Advanced Narrative Report Use
- Embedding Images and Video
- Utilizing Narrative Report Text
- Working with Shapes and Arrows
- Aligning Elements
- Report Templates

## **Courtroom Testimony for Expert Witnesses**

Law Enforcement and Emergency Services Video Association International

Online

June 15<sup>th</sup> – 17<sup>th</sup>, 2020

24 Hours

- Preparation for courtroom testimony
- Drafting expert reports
- Peer review
- Trial procedure
- Becoming qualified as an expert witness for the first time
- Expert witness bias
- Drafting curricula vitae (CVs)
- The role of the expert witness
- Essential communication skills needed when presenting evidence to juries and judges
- Visual multimodal presentation of evidence
- The role of the expert witness when there is an opposing expert
- Moot court practice

## **Video Evidence Training with iINPUT-ACE**

iINPUT-ACE

Online

June 1<sup>st</sup> – 5<sup>th</sup>, 2020

15 Hours

- Analysis and interviews for force investigations
- Violent crime digital evidence recovery during Covid-19
- Analysis and Interviews for force investigations
- Calculating Accurate Timing from Video
- DVR Evidence Recovery
- Photoshop in the video analysis workflow
- Video evidence and photogrammetry

## **Forensic Video Analysis and the Law LEVEL 4**

Law Enforcement and Emergency Services Video Association International

Phoenix, Arizona

December 9<sup>th</sup> – 13<sup>th</sup>, 2019

40 Hours

- Expert witness bias awareness
- Advanced Issues for the Forensic Video Analyst
- Visual Presentation of Evidence
- Reports and Disclosure Packages
- Image Comparison Best Practices Updates
- Exhibits with Photoshop
- Exhibits with Amped FIVE, iINPUT-ACE, After Effects
- Moot Court

## **Forensic Audio Analysis & Audio Enhancement with iZotope RX**

Law Enforcement and Emergency Services Video Association International

Plymouth, Michigan

July 22<sup>nd</sup> – 26<sup>th</sup>, 2019

40 Hours

- Forensic workflow and tools available in the iZotope RX software.
- Features, tools, processes, and advanced enhancement techniques
- Fundamentals of audio, and the processing techniques for forensic audio clarification.
- Sound fundamentals, forensic audio “Best practices,” common audio problems, and basic audio enhancement principles
- Improve audio recording issues with software tools like Audacity, iZotope RX, Adobe Audition, and Pro Tools.

## **Forensic Video Analysis and the Law LEVEL 2**

Law Enforcement and Emergency Services Video Association International

Raleigh, North Carolina

June 18<sup>th</sup> – 22<sup>nd</sup>, 2018

40 Hours

- principles of video technology
- proper handling of analog and digital multimedia evidence
- data authentication and integrity
- digital evidence extraction
- forensic processing techniques
- legal aspects of video evidence
- ethics for expert witnesses

## **Photographic Video Comparison LEVEL 3**

Law Enforcement and Emergency Services Video Association International

Indianapolis, Indiana

September 12<sup>th</sup> – 16<sup>th</sup>, 2016

40 Hours

- Understand and articulate consistencies and inconsistencies between similar objects
- Identify class characteristics and unique characteristics in known or questioned objects
- Develop effective Standard Operating Procedures, including note taking
- Prepare video evidence for court
- Understand the boundaries for the forensic video expert in court
- Develop competency with the production of comparison charts
- Develop advanced strategies for the examination of video evidence
- Produce effective courtroom presentation

## **Forensic Authentication of Digital Audio**

The University of Colorado Denver, Center for Media Forensics

Denver, Colorado

September 17<sup>th</sup> – 19<sup>th</sup>, 2015

24 Hours

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

## **Forensic Audio Enhancement**

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

September 14<sup>th</sup> – 16<sup>th</sup>, 2015

24 Hours

- The latest forensic audio recording/processing techniques
- Advanced principles of forensic audio enhancement
- Forensic techniques, emerging science, and limitations of the forensic expert
- Digital evidence seizure and acquisition

## **Forensic Authentication of Digital Images**

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

September 22<sup>nd</sup> – 24<sup>th</sup>, 2014

24 Hours

- Foundation for forensic image authentication
- Data Analysis
- Pixel Level Analysis
- Advanced principles of forensic image authentication
- Forensic techniques, emerging science and limitations of the forensic expert
- Digital evidence seizure and acquisition

## **Digital Multimedia Evidence Processing LEVEL 1**

Law Enforcement and Emergency Services Video Association International  
Indianapolis, Indiana

October 7<sup>th</sup> – 11<sup>th</sup>, 2013

40 Hours

- principles of video technology
- proper handling of analog and digital multimedia evidence
- data authentication and integrity
- digital evidence extraction
- forensic processing techniques
- legal aspects of video evidence
- ethics for expert witnesses

## CERTIFICATIONS

### **Certified Forensic Video Technician**

Law Enforcement and Emergency Services Video Association International  
June 2018 to June 30<sup>th</sup>, 2021

## PROFESSIONAL ASSOCIATION MEMBERSHIPS

- 🔗 Video Committee Member of SWGDE (The Scientific Working Group on Digital Evidence 2022-current)
- Current Member of LEVA (Law Enforcement and Emergency Services Video Association 2013-Current)
- Member of AES since (2015-Current)
- Member of IAI since (2016-Current)
- Board Member of The WMP Justice Review since (2018-Current)

## MEDIA AND PUBLICATIONS

- 2015: Was interviewed for the article *Brockton eyes more surveillance cameras to fight crime* regarding the analysis of video evidence.
- 2017: Appeared on TV series 'Expedition Unknown' for The Travel Channel as an Image Forensic Expert.
- 2019: Appeared on TV series 'Unidentified: The Hunt for Contact' for The Discovery Channel as a Video Forensic Expert.
- 2020: Interviewed by the Associated Press about the Significance of Body Cameras for the George Floyd investigation. Quoted in the New York Times.
- 2020: Appeared on TV series 'The Proof is Out There' as a Forensic Video Analyst of 20 videos

## INSTRUCTIONAL EXPERIENCE

- 2013 – Current: Annual lecturing in Media Forensics at The University of Detroit Mercy School of Law
- 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.
- 2020: Davenport University, Warren, Michigan: Gave a presentation on image forensics including forensic image comparison and digital image authentication for the InfraGard group.



**RESULTS FROM AUDIOLOGICAL ASSESSMENT, 2019**



**NORTH OAKLAND EAR, NOSE & THROAT CENTERS, P.C.**

CARL B. SHERMETARO, D.O.

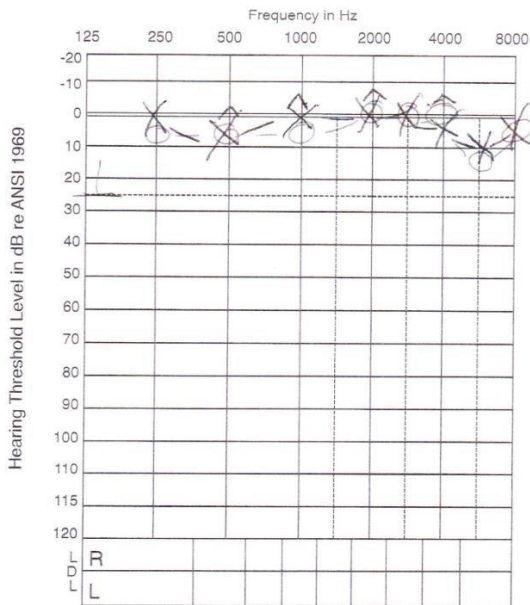
ASHA J. DOWNS, D.O.

GARY S. KWARTOWITZ, D.O.

JULIE A. DAVIS, M.A., CCC-A JACQUELINE BORLAND, AU.D., CCC-A

NAME <i>Michael Primeau</i>	DATE <i>1/23/19</i>	BIRTHDATE <i>8/19/91</i>	EXAMINER <i>J. Borland AuD</i>
REFERRAL SOURCE	RESPONSE <i>Conventional</i>	ESTIMATED ACCURACY <i>good</i>	

**COMPREHENSIVE AUDIOLOGICAL ASSESSMENT**



SRT/SAT R 0 L 0  
MCL R \_\_\_\_\_ L \_\_\_\_\_  
UCL R \_\_\_\_\_ L \_\_\_\_\_

**Speech Discrimination**

R 100 % @ 40 dB HL  
L 100 % @ 40 dB HL

KEY	L	R	ABBREVIATIONS
AC	X	O	AC Air Conduction
AC masked	□	△	BC Bone Conduction
BC	>	<	NR No Response
BC masked	]	[	DNT Did Not Test
Better Bone	↕	↕	CNT Could Not Test
No response	↕	↕	SL Sensation Level
Sound field	S	S	W Warbled Tones
Unaided	UN	UN	VRA Visual
Aided	A	A	Reinforcement
UCL	U	U	Audiometry
Warbletone	W	W	SAT Speech Awareness
			Threshold
			LDL Loudness
			Discomfort Level
			MCL Most Comfortable Loudness

**CLINICAL IMPRESSIONS:**

*Hearing is within normal limits*

RECOMMENDATIONS: Medical Follow-up \_\_\_\_\_ Amplification: Monaural Binaural  
Re-evaluation \_\_\_\_\_ Other \_\_\_\_\_

CARL SHERMETARO, D.O.

ASHA J. DOWNS, D.O.

GARY KWARTOWITZ, D.O.

## PREVIOUS CASE EXPERIENCE

I have worked on several dozen 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. **City of Chicago v. Lytesia Little**

#### **Case No. 18 L 10146**

**Civil: Defense**

**Attorney for the City of Chicago Barbara Burke**

January 27<sup>th</sup>, 2022

- Forensic video analysis of surveillance video
- Forensic audio analysis of siren audibility
- Site inspection of in car video camera system

### 2. **Andrew Stout, P.R. of the Estate of Kyle Sloan, deceased v Hartsig Supply Company, Inc. and Jason Eastman**

#### **Case No.: 19-113536**

**Civil: Defense**

**Attorney Cameron Getto**

October 25<sup>th</sup> 2021

- Forensic video analysis for vehicle speed estimation
- Testified in a deposition in the area of methodology and experience in this area

### 3. **Cobb, et at. v. Jimmy A. Dunn Excavating Company**

#### **Civil Action No. 20-C-818**

**Civil: Plaintiff**

September 27<sup>th</sup> 2021

- Forensic video analysis, DVR recovery, site inspection
- Testified in a deposition in the area of methodology and opinions regarding authenticity of site inspection of DVR system

### 4. **Gray V St. Clair Shores**

**Civil: Defense**

**Attorney Timothy Ferrand, Cummings, McClorye, Davis and Acho Rochester Hills, MI –**

February 4<sup>th</sup> 2021

- Forensic Video Analysis-Timeline reconstruction,
- Testified in a deposition in the field of Forensic Video Analysis via Zoom

## **5. Jerime Mitchell v City of Cedar Rapids**

**Attorney Elizabeth Jacobi**

**Attorney for City of Cedar Rapids**

**Civil: Defenses**

Cedar Rapids, Iowa – December 9<sup>th</sup>, 2020

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

## **6. People of the State of Michigan v Andi Mustafa**

**Case # 19-0292-FY**

**Attorney Karen Groenhout**

**Judge Michael Hatty**

**Criminal: Defenses**

Livingston County Circuit Court.

Howell, Michigan – December 11<sup>th</sup>, 2020

- Forensic Image Authentication
- Testified in the field of forensic image authentication

## **7. People v. Letoi Mitchell**

**Attorney Chris Kessel**

**Mark T. Slavens**

**Criminal: Defenses**

Wayne County Circuit Court.

Detroit, Michigan – November 11<sup>th</sup>, 2019

- Digital Forensic Analysis
- Forensic Image Authentication
- Testified in the field of digital forensics

## **8. The State of Oklahoma v. Jerry Steven Gonzales**

**Attorney Corey Brennan**

**Honorable Judge Amy Palumbo**

**Criminal: Defenses**

District Court of Oklahoma County

Oklahoma City, Oklahoma – June 10<sup>th</sup>, 2019

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

**9. U.S. v. Jerry Li**

**Attorney Jason Manning**

**Civil: Defenses**

U.S. Department of Justice Criminal Division – Fraud

1400 New York Ave.

NW Washington , DC April 15<sup>th</sup> 2019

- Forensic audio authentication

**10. Magic Circle Films Int’l, LLC v. Breon, Cayuga County Index**

**Attorney Ben Klebanoff**

Shearman & Sterling, LLP

New York, New York – October 12<sup>th</sup>, 2018 and November 8<sup>th</sup>, 2018

- Forensic Audio Comparison
- Testified in a deposition in the field of forensic audio analysis

**11. State v. Al Nuaimi**

**Attorney Nathan Olson**

**Judge Scott D. Rosenberg**

**Criminal: Defenses**

Iowa District Court, Polk County

Des Moines, Iowa – March 26<sup>th</sup>, 2018

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

**12. People v. Arseniy Bakhshetsyan**

**Attorney Emily Long**

**Criminal: Defenses**

Washtenaw 22<sup>nd</sup> Circuit Court

Ann Arbor, Michigan – May 25<sup>th</sup>, 2018

- Forensic Image Authentication
- Testified in the field of Forensic Image Authentication

**13. Scott Lancaster v. Burton Police Officer Chad Collier**

**Attorney Thomas DeAgostino**

**Civil: Defenses**

Potter, DeAgostino, O’Dea & Patterson

Auburn Hills, Michigan

- Forensic Video Analysis
- Forensic Video Authentication

**14. Paul Hicks v. Allstate Vehicle and Property Insurance Company, et al.**

**Attorney Lou Schneider**

**Civil: Plaintiff**

Cincinnati, Ohio – September 5<sup>th</sup>, 2017

- Forensic Image Comparison
- Forensic Image Enhancement
- Testified in a deposition in the field of forensic image comparison

**15. David Eno, Special Administrator of the Estate of Barbara ENO, v. Sinaria Lee and Ozinga Chicago Ready Mix Concrete, INC.**

**Attorney Howard Schaffner**

**Civil: Defense**

Chicago, Illinois – March 7<sup>th</sup>, 2017

- Forensic Image Analysis
- Expert Witness Deposition in Forensic Image Analysis

**16. People v. Ronald Polk, Isabella County Case No. 16-1918-SM**

**Attorney Tara Hovey**

**Criminal: Defense**

Judge Mark H. Duthie

Isabella County Trial Court

Harrison, Michigan – March 7<sup>th</sup>, 2017

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

**17. People v. Jayvon Cates, Macomb County Case No. 15-001446**

**Attorney William Dailey**

**Criminal: Prosecution**

Honorable Judge Mary A. Chrzanowski

16<sup>th</sup> Circuit Court

Mount Clements, Michigan – April 5<sup>th</sup>, 2016

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

- 18. People v. Deandre Lee Arnold, Macomb County Case No. 2015-001372-FC**  
**Attorney Jeffery A. Cojocar**  
Honorable Judge Mary A. Chrzanowski  
**Macomb County Circuit Court**  
**Criminal: Defense**  
Mount Clements, Michigan – March 18<sup>th</sup>, 2016
- Forensic Video Enhancement
  - Testified in the area of forensic video clarification
- 19. People v. Kethlie Joseph Medford Center for Living New York Attorney General, Veronica Bindrim MacDevitt**  
**Criminal: Prosecution**  
Albany, New York – May 2015
- Forensic Video Analysis
  - Forensic Video Enhancement
  - Multi-Camera Visual Synchronization
- 20. Murphy v. Southeastern Stages, INC. and Cynthia Ann Stewart**  
**Attorney Danny Henderson**  
**Civil: Plaintiff**  
Ridgeland, South Carolina – June 25<sup>th</sup>, 2015
- Evidence Retrieval on Location
  - Forensic Video Analysis
  - Forensic Video Enhancement
  - Forensic Video Recovery
- 21. Wendrow et al v. Michigan Department of Human Services et al, No. 5:2008cv14324**  
**Attorney Steve Potter**  
**Civil: Defense**  
Potter, DeAgostino, O’Dea & Patterson  
Auburn Hills, Michigan – November 2014
- Video Evidence Presentation
- 22. Lowery v. Buddy Moore Trucking et al**  
**Attorney Andy Pippenger**  
**Civil: Plaintiff**  
Leitner, Williams, Dooley & Napolitan, PLLC  
Chattanooga, Tennessee – January 31<sup>st</sup>, 2014
- Evidence Retrieval on Location
  - Forensic Video Analysis and Enhancement

**23. Estate of Mckenzie Cochran v. Northland Center Michigan, L.L.C., ET AL.**

**Attorney Milt Greenman**

**Civil: Plaintiff**

Southfield, Michigan May 2015

- Forensic Video Analysis

**24. Estate of Thomas McIntosh v. Prudential**

**Attorney Daniel McCarthy**

**Civil: Defense**

Farmington Hills, Michigan – March 2015

- Forensic Video Analysis
- Forensic Image Clarification

**25. Beric v. Kaplan**

**Attorney Allison Hayes**

**Civil: Defense**

Mannion and Gray Cleveland,

Ohio – June 2013

- Forensic Video Analysis
- De-multiplexing video evidence
- Forensic image clarification
- Video Evidence batch and organization for playback

**26. The state of Maryland v. Shirley Bolton**

**Attorney Ken Ravenell**

Baltimore, Maryland

**Attorney Stanley Reed**

**Criminal: Defense**

Bethesda, Maryland – October 2014

- Video Evidence batch and organization for playback
- Forensic Video Analysis and Enhancement
- Evidence Retrieval on Location

**27. Regina v. Aaron John Bernardo**

**Attorney Lucy Organ**

**Criminal: Prosecution**

Samson and McGrath Cayman

Islands – March 2013

- Forensic Video Analysis and Enhancement
- Forensic Video Authentication

**28. James Schade, et al v. Automatic Entrances of Wisconsin, INC. et al**

**Attorney Matt Van Keulen**

**Civil: Plaintiff**

Simpson & Deardorff

Milwaukee, Wisconsin – January 2014

- Forensic Video Analysis and Enhancement
- Forensic Image Analysis and Enhancement

**29. Khother v. West Bloomfield**

**Wright V Bloomfield Township**

**Gamble V Van Buren Township**

**Attorney Margaret Debler**

**Civil: Defense**

Johnson, Rosati, LaBarge, Aseltyne & Field, PC

Farmington Hills, Michigan – September 2013

- Forensic Audio Classification and Enhancement
- Forensic Video Analysis and Enhancement