PRIMEAU FORENSICS

IDENTIFY – CLARIFY – TESTIFY

CURRICULUM VITAE

Michael A. Primeau, CFVT, MCE, CFVE

Audio, Video and Image Forensic Expert

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SUMMARY

I, Michael Alan Primeau practice in the forensic discipline of audio, video and digital image forensic analysis and have been for the last 10 years. I have expert witness testimony experience in courts at the state level. As an audio forensic analyst, my practices include digital audio authentication, clarification, and comparison. As a video forensic analyst, my practices include video authentication, clarification, analysis, and recovery. As an image forensic analyst, my practices include image clarification, authentication, and comparison.

Throughout the course of my career, I have been retained as an expert for Law Enforcement agencies in forensic investigative capacities throughout the United States. Some of these departments include The Department of Justice, Department of Defense, Department of Internal Affairs, Cedar Rapids Police in IA, Attorney Generals' offices of New York, Michigan, and several others.

I follow best practices from the Scientific Working Group for Digital Evidence (SWGDE) the National Institute of Standards and Technology (NIST) and ASTM International. I am currently serving as the chair of the video committee with SWGDE, regularly contributing to best practices in forensic video analysis. I am also a partner with Primeau Forensics, LTD.
Statement of Duty: I, Michael Primeau, 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

CERTIFICATIONS

Certified Forensic Video Examiner
International Association for Identification

Amped Five Ceritifed
Amped Software
September 18th, 2023
Exparation September 18th, 2025

Medex Certified Media Examiner
Medex Forensics
January 3rd, 2023
Certificate Number 2300301

Certified Forensic Video Technician
Law Enforcement and Emergency Services Video Association International
June 2021 to June 30th, 2024

EDUCATION/TRAINING

Amped Five (Speed Module)
Amped-Online
July 18-20, 2023
15 hours

- Timestamps: definitions, management, and adjustment
- The Presentation Timestamp (PTS): definition and inspection
- Types of measurement in different and challenging situations
- Speed Estimation filter.

Medex Examiner
Medex– Online
November 16-17th, 2022
16 Hours

- Identification of device that originally created/transmitted a video file
- Understanding video file metadata
- Deepfake video detection
- Social media / cloud stored video considerations
- Articulating expert results

Amped Five
Amped-Online
October 3rd-8th 2022
25 hours

- acquire the fundamentals of image and video processing
- understand where and why artifacts are introduced during the creation of digital multimedia evidence
- fix the most common issues using over 140 enhancement, restoration, and analysis filters and tools
- critically analyze the available information (image comparison, height analysis, timing analysis, etc.)
- design a forensically sound workflow and report all achieved results according to scientific and judiciary constraints.

Leica BLK 360 & Cyclone

- Field Planning and RTC360 Field Workflows
- Scanning Practice on Site
- Targets and NIST Pole
- Data Management
- Downloading and Importing Data
- Introduction to Cyclone Software and Basic Software Commands
- Cloud-to-Cloud Registration in Cyclone
- Tools for Cleaning Scan Data – Fences, Smooth Surface, Hidden Cloud, Set Scanworld

Default Cloud, Limit Boxes
- Measurements
- Marking Evidence with GeoTags
- Witness Viewpoints
- Exporting Data
- TruViews

Amped Authenticate

Amped – Online
June 21-25th, 2021
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.

iNPUT ACE Operator Certification

iNPUT ACE - Online
June 1st – 2nd, 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

iNPUT ACE Examiner Certification

iNPUT 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 15th – 17th, 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 iNPUT-ACE

iNPUT-ACE
Online
June 1st – 5th, 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 9th – 13th , 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, iNPUT-ACE, After Effects
- Moot Court

Forensic Audio Analysis & Audio Enhancement with iZotope RX

Law Enforcement and Emergency Services Video Association International
Plymouth, Michigan
July 22nd – 26th, 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 18th – 22nd, 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

Bachelor of Science Degree (BSAET)

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

Photographic Video Comparison LEVEL 3

Law Enforcement and Emergency Services Video Association International
Indianapolis, Indiana
September 12th – 16th, 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 17th – 19th, 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 14th – 16th, 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 22nd – 24th, 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 7th – 11th, 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

PROFESSIONAL ASSOCIATION MEMBERSHIPS

- SWGDE Video Committee Chair (The Scientific Working Group on Digital Evidence 2022-2024)
- 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)

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-Current: Appeared on TV series 'The Proof is Out There' as a Forensic Video Analyst of 20 videos

INSTRUCTIONAL EXPERIENCE

- 2013 – 2018: 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