



PRIMEAU FORENSICS
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CURRICULUM VITAE

MICHAEL ALAN PRIMEAU, CFVT, MCE, CFVE

AUDIO, VIDEO AND IMAGE FORENSIC EXPERT

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SUMMARY

I, Michael Alan Primeau, have been practicing in the following disciplines; audio/video forensics and image forensics for the last 12 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 and analysis. As an image forensic analyst, my practices include image clarification, authentication, and comparison. As a digital forensic examiner, my practices include the collection, recovery and reconstruction of digital multimedia evidence from DVRs, NVRs, VMSs and other devices that record audio/video data.

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 currently serve 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 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

MEMBERSHIP

1. SWGDE Video Committee Chair (The Scientific Working Group on Digital Evidence 2022-Current)
2. Current Member of LEVA (Law Enforcement and Emergency Services Video Association 2013-Current)
3. Member of AES since (2015-Current)
4. Member of IAI since (2016-Current)

CERTIFICATIONS

MAGNET CERTIFIED MEDIA EXAMINER

MAGNET FORENSICS

- **Issued:** December 8th, 2025
- **Certificate Expiration:** Two years from issue date

CERTIFIED FORENSIC VIDEO EXAMINER

INTERNATIONAL ASSOCIATION FOR IDENTIFICATION

- **Issued: 2024**
- **Expiration:** April 26th, 2029

AMPED FIVE CERTIFIED

AMPED SOFTWARE

- **Issued :** January 3rd, 2026
- **Expiration:** January 4th, 2028

CERTIFIED FORENSIC VIDEO TECHNICIAN

LAW ENFORCEMENT AND EMERGENCY SERVICES VIDEO ASSOCIATION

- **Issued:** July 2024
- **Expiration:** June 30th, 2027

Virtual, March 17-19th, 2026 | 24 hours

- Course objectives, scenario, and expected outcomes for the three-day course will be presented, along with an overview of each module.
- Students will install, license, and configure Magnet Witness, including basic settings and case creation.
- The importance of using multiple video players during video review will be discussed, including installation of several open-source players.
- Fundamentals of digital imaging will be covered, including how images are created and how resolution and IR video affect image appearance.
- Digital video principles will be introduced, including video attributes, compression methods, codecs, and their impact on overall video quality, demonstrated using Magnet Witness.
- DVR systems will be examined, covering system types, components, and differences among video recording devices.
- Best practices for pre-scene research and on-scene considerations involving DVR systems will be discussed.
- Documentation requirements for DVR interfaces and various documentation methods will be reviewed.
- Students will learn how to create a forensic image of a DVR hard drive and be introduced to additional video evidence sources.
- Students will add evidence to a Witness case and analyze video using available tools, including viewing, tagging, and marking clips for export.
- Video export and reporting workflows within Witness will be covered, with hands-on exercises.
- The difference between multimedia containers and video streams will be explained.
- Post-export considerations and limitations related to video enhancement will be discussed.

COMBS FORENSICS – ADVANCED AUDIO ENHANCEMENT

In Person, March 10th, 2025 | 8 hours

- Reference signal cancellation overview
- Technical application of the method using iZotope RX

HANDGUN MASTERY - TACTICAL PERFORMANCE CENTER

In person, October 18-20th, 2024 | 24 hours

- Improve shooting performance
- Fire control
- Trigger manipulations
- Reactive Shooting Cycle
- Focal continuum – different types of focus and vision methods
- Secrets of the high-efficiency target transitions and engaging multiple targets
- The effective, high-speed draw

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

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

In person

- 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
- Default Cloud, Limit Boxes
- Measurements
- Marking Evidence with GeoTags
- Witness Viewpoints
- Exporting Data
- TruViews
- Tools for Cleaning Scan Data – Fences, Smooth Surface, Hidden Cloud, Set Scanworld

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

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

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

In Person, 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

**In Person, 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

In Person, 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

In Person, Southfield, MI 2012 – 2018

LAW ENFORCEMENT AND EMERGENCY SERVICES VIDEO ASSOCIATION INTERNATIONAL
INDIANAPOLIS, INDIANA

In Person, 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

In Person, 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

In Person, 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

In person, 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

LAW ENFORCEMENT AND EMERGENCY SERVICES VIDEO ASSOCIATION INTERNATIONAL
INDIANAPOLIS, INDIANA

In Person, 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

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 the TV series 'Expedition Unknown' for The Travel Channel as an Image Forensic Expert.
- 2019: Appeared on the 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 the TV series 'The Proof is Out There' as a Forensic Video Analyst of 50+ audio/video and photographic recordings

INSTRUCTIONAL EXPERIENCE/PRESENTATIONS

- 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 audio and video forensics basics.
- 2019: Troy Police/Fire Training Facility, Troy, Michigan: Gave a presentation on audio and video forensics basics 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
- 2021: Troy High School, Troy, Michigan: Gave a presentation on the basics of audio and video forensics.
- 2023: Troy High School, Troy, Michigan: Gave a presentation on the basics of audio and video forensics.
- 2023: Cooley Law School, Lansing, Michigan: Presented on the effects of digital video evidence, current scientific methodology and industry standards, case studies based on cases I have been retained in, and understanding how video evidence can be used as a weapon.
- 2023: St. Clair County Public Defender: Presented on the effects of digital video evidence, current scientific methodology and industry standards, case studies based on cases I have been retained in, and understanding how video evidence can be used as a weapon.
- 2023: NAMIC Webinar: Presented on the effects of digital video evidence, current scientific methodology and industry standards, case studies based on cases I have been retained in, and understanding how video evidence can be used as a weapon.
- 2024: Amped User Days: Presented to Amped Users via Zoom on a case study concerning identifying subdermal bruises from enhanced imagery.
- 2025: Macomb County Public Defenders: Presented on digital forensics and case studies from a criminal defense perspective.
- 2025: Rochester Adams High School: Presented on digital video forensics to a high school forensic science class.

