

Zac Giammarrusco - CFVT M.S

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Skill Summary

Certified forensic video evidence technician specializing in audio and video forensic requests. Honors graduate from The National Center for Media Forensics. Over 10 years experience in comparison and evaluation of digital media evidence in legal matters. Certified Body-worn camera administrator, instructor, and part 107 drone pilot for a Colorado police department.

Education

MASTERS OF SCIENCE - MEDIA FORENSICS | DECEMBER 2014 | UNIVERSITY OF COLORADO DENVER

- Related Coursework: Forensic Audio Analysis, Forensic Video, and Image Analysis, Mobile Phone Forensics, Computer Forensics, Report Writing and Courtroom testimony, Forensic Science, and Litigation.

BACHELORS OF RECORDING ARTS - AUDIO ENGINEERING | DECEMBER 2012 | UNIVERSITY OF COLORADO DENVER

- Related Coursework: Audio Production, Live Sound Reinforcement, Mastering and Advance Digital Audio, Audio Post-production, Digital Music Techniques.

Experience

LEAD DIGITAL FORENSIC EXAMINER | FOCAL FORENSICS | 2017 - PRESENT

- Audio, Video, and Image authentication, redaction, enhancement, and comparison requests. Lead examiner regularly in charge of multiple complex digital evidence investigations or redaction requests.

DIGITAL MEDIA SPECIALIST | UNIVERSITY OF COLORADO BOULDER POLICE DEPARTMENT | AUGUST 2019 - PRESENT

- Body-worn camera and Fleet camera administrator. In charge of all Digital evidence management. Video redaction specialist processing digital media records requests. Mobile application support specialist and Part 107 drone pilot for CU football games.

DIGITAL FORENSIC EXAMINER | CACI - 17025 ACCREDITED FORENSIC LAB | AUGUST 2016 - AUGUST 2017

- Forensic Examination of Computer evidence, in charge of maintaining evidence integrity throughout the life cycle of the lab. Primary role creating forensic Images from Laptops, Cellphones, and other multimedia storage devices. Responsible for audio, video, image conversion, and enhancement requests.

DIGITAL FORENSIC EXAMINER | CYOPSIS FORENSIC LABORATORY | MARCH 2015 - AUGUST 2016

- Forensic Examination of Computer evidence, in charge of maintaining evidence integrity throughout the life cycle of the lab. Primary role creating forensic Images from Laptops, Cellphones, and other multimedia storage devices. Responsible for audio, video, image conversion, and enhancement requests.

• Published Work

- **SOURCE IDENTIFICATION OF HIGH DEFINITION VIDEOS: A FORENSIC ANALYSIS OF DOWNLOADERS AND YOUTUBE VIDEO COMPRESSION USING A GROUP OF ACTION CAMERAS.” AUTHORED BY ZAC GIAMMARRUSCO, CATALIN GRIGORAS, JEFF SMITH, ©2014**

• Seminars And Classes

- **LEVA LEVEL 4 (LAW ENFORCEMENT AND EMERGENCY SERVICES VIDEO ASSOCIATION INTERNATIONAL)**
- **ADVANCED VIDEO FORENSIC ANALYSIS & THE LAW. MARCH 2022 - 40 HOURS TOTAL**
- Related Coursework: Hands-on processing of digital video evidence. Reporting writing and presentation in a moot court setting. This Advanced level class focuses on case law and relevant issues as well as advanced forensic video analysis techniques. The legal issues surrounding the seizure and examination of digital CCTV images is also discussed.
- **LEVA LEVEL 3 (LAW ENFORCEMENT AND EMERGENCY SERVICES VIDEO ASSOCIATION INTERNATIONAL)**
- **PRINCIPLES OF FORENSIC VIDEO/IMAGE COMPARE AND CONTRAST. JANUARY 2022 - 40 HOURS TOTAL**
- Related Coursework: Understand and articulate consistencies and inconsistencies between similar objects. Identify class characteristics and unique characteristics in known or questioned objects. Develop effective standard operation 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 presentations.
- **LEVA LEVEL 2 (LAW ENFORCEMENT AND EMERGENCY SERVICES VIDEO ASSOCIATION INTERNATIONAL)**
- **DIGITAL MULTIMEDIA EVIDENCE PROCESSING. JULY 2021- 40 HOURS TOTAL**
- Related Coursework: Forensic Video Analysis, Multimedia Extraction, Video Redaction, Principles of CCTV systems, Data Authentication and Integrity Verification, Audio Processing, Digital Image Clarification, Video Compression, Infrared Light, The Scientific Method, Legal Issues with Digital Video, Forensic Video Workflow, Digital Image Authentication, and Tampering, Certification, and Accreditation.

- **LEVA LEVEL 1 (LAW ENFORCEMENT AND EMERGENCY SERVICES VIDEO ASSOCIATION INTERNATIONAL)**
- **FORENSIC VIDEO ANALYSIS AND THE LAW. APRIL 2017- 40 HOURS TOTAL**
- Related Coursework: Legal Issues related to DME (Digital and Multimedia Evidence), Proper recovery of DME, Evidence Recovery Techniques and Methods, Introduction to DVR systems.
- **AXON ACADEMY - CERTIFICATION IN AXON BODY-WORN CAMERA HARDWARE, DIGITAL EVIDENCE MANAGEMENT IN AXON EVIDENCE.COM, VIDEO REDACTION, AND AXON MOBILE APPLICATIONS) - AUGUST 2020 - 24 HOURS TOTAL**
- **AMPED5 VENDOR SOFTWARE TRAINING**
- **FORENSIC VIDEO ENHANCEMENT. OCTOBER 4TH - 9TH 2021 20 HOURS TOTAL**
- Related Coursework: Digital Image processing, Image compression, Image enhancement techniques, Audio redaction, Photogrammetry, Image analysis using Amped5 software.
- **Testimony**
- **01/29/2019 MIAMI, FL; MEDICAL DAMAGES (VIDEO ENHANCEMENT)
[CASE-#16-CIV-20904-TORRES]**
- **CINDY BELANGER VS. RESORTS WORLD BIMINI. UNITED STATES DISTRICT COURT SOUTHERN DISTRICT OF FLORIDA**
- **04/18/2018 FORT LAUDERDALE, FL; FRAUD INVESTIGATION (IMAGE COMPARISON)
[CASE-#15008519CF10A]**
- **STATE OF FLORIDA VS. JOHN ROBINSON. 540 SOUTH EAST 3RD AVE FORT LAUDERDALE, FL 33301**
- **02/12/2018 FORT COLLINS, CO; CHILD CUSTODY (IMAGE AUTHENTICATION)
[CASE-#2013-DR-0572]**
- **DIVISION 1A LARIMER COUNTY DISTRICT COURT; 201 LAPORTE AVENUE FORT COLLINS, COLORADO 80521**
- **Depositions**
- **04/12/2018 FOR THE CIRCUIT COURT OF THE 17TH JUDICIAL CIRCUIT, IN BOWARD COUNTY, FLORIDA. CASE NUMBER 14-8519CFA (IMAGE COMPARISON)**
- **STATE OF FLORIDA VS. JOHN ROBINSON.**

▪ **Conferences and Continuing Education**

- **AMERICAN ACADEMY OF FORENSIC SCIENCES ANNUAL CONFERENCE - FEBRUARY 2022- ONLINE**
- **AMERICAN ACADEMY OF FORENSIC SCIENCES ANNUAL CONFERENCE - FEBRUARY 2021- ONLINE**
- **AES - AUDIO FORENSIC CONFERENCE - PORTO PORTUGAL - JUNE 2019**
- **AMERICAN ACADEMY OF FORENSIC SCIENCES ANNUAL CONFERENCE - FEBRUARY 2018- SEATTLE**
- **AES - AUDIO FORENSIC CONFERENCE (ARLINGTON VIRGINIA - JUNE 2017)**
- **AMERICAN ACADEMY OF FORENSIC SCIENCES ANNUAL CONFERENCE - FEBRUARY 2016- LAS VEGAS**
- **AMERICAN ACADEMY OF FORENSIC SCIENCES ANNUAL CONFERENCE - FEBRUARY 2013- WASHINGTON DC**

▪ **Professional Memberships**

- **LEVA - LAW ENFORCEMENT AND EMERGENCY SERVICES VIDEO ASSOCIATION INTERNATIONAL, INC. - MEMBER**
- **AES - (AUDIO ENGINEERING SOCIETY) - ASSOCIATE MEMBER**
- **IAI - (INTERNATIONAL ASSOCIATION FOR IDENTIFICATION) - MEMBER**
- **AAFS - (AMERICAN ACADEMY OF FORENSIC SCIENCE'S) - MEMBER**
- **SWGDE - (SCIENTIFIC WORKING GROUP ON DIGITAL EVIDENCE) - PAST PARTICIPANT**