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Please Respond to
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Curriculum Vitae

Andrew A. May

Forensic Consultant

Professional Profile

Mr. May is a Forensic Consultant with extensive experience, education, and training in the fields of Accident Reconstruction and Mechanical Engineering. He has over 20 years of experience with reconstructing collision events using advanced engineering methodologies, as well as over a decade in Mechanical Engineering design, development, and manufacturing roles. As an Adjunct Professor for 12 years, Mr. May led numerous university-level Mechanical Engineering research and design projects focused on innovation and production of mechanical engineering concepts.

At Focus Forensics, Mr. May conducts investigations and analyses of collision events, including factors related to vehicles, drivers, and roadway environments. He applies his broad and deep mechanical engineering experience to the data collection, modeling, and analytical understanding of dynamic vehicular incidents. His practice includes the evaluation of issues related to all types of transportation users, including automobiles, pedestrians, bicycles, motorcycles, commercial vehicles, transit, highway-rail grade crossings, and work zone temporary traffic control.

His role includes field investigations, data collection, vehicle and scene documentation, electronic data retrieval, and inspections of vehicular and roadway systems. Mr. May utilizes cutting edge technology to capture evidence and preserve electronic information, including FARO 3D laser scanning, Total Station laser mapping, Bosch CDR vehicle download system, commercial vehicle Engine Control Module (ECM) data extraction systems, unmanned aerial vehicle (UAV) mapping and imagery, speedometer inspection, forensic photography, photogrammetry, and traffic signal data documentation. He is skilled in forensic diagramming and 3-D modeling for the analysis and demonstrative visual communication of engineering concepts.

Contact Information

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Andy@focusforensics.com

Salt Lake Office
51 West Center Street, Suite #317
Orem, UT 84057

Education

Brigham Young University
Provo, Utah
B.S. in Mechanical Engineering

Work Experience

Focus Forensics, LLC
Consultant: *2018-Present*

IMSAR, LLC
Director of Programs: *2015-2018*
Program Manager: *2012-2015*
Director of Manufacturing: *2011-2013*

CompleteSpeech
Director of Product Development: *2006-2011*

Brigham Young University
Mechanical Engineering Department
Adjunct Professor: *1996-2008*

Collision Safety Engineering
Forensic Consultant: 1990-2006

Licensure and Professional Certification

Remote Pilot – Small Unmanned Aircraft System
Federal Aviation Administration

Professional Development

Department of Public Safety, State of Utah

- Utah's Child Passenger Safety Technical Training Course, May 2000

Focus Forensics, LLC

- Transportation Engineering and Accident Reconstruction Insights, 2022
- Transportation Engineering and Accident Reconstruction Insights, 2024
    - Human Factors for Driver Response
    - Traffic Signal Design and Operation
    - Transportation Engineering Sight Distance Standards
    - Automotive Mechanical Systems and Data Acquisition
    - Photogrammetric Methods
    - Video Analysis with Telemetry Data
    - LIDAR Scanning and Data Processing
    - Virtual Crash Applications for Simulation and Animation
    - PC Crash Applications for Steering and Yaw Rate
    - Expert Testimony Regulations and Standards
    - Commercial Vehicle EDR Data Extraction and Analysis
    - Vehicle EDR Systems for Toyota and General Motors
- Transportation Engineering and Accident Reconstruction Insights, 2025
    - EDR Extraction and Analysis Methods for Video Radar Decision Units (VRDU)
    - Acquisition and Analysis Methods for Temporary Roadway Conditions
    - LIDAR Scanning and Data Processing
    - Air Brake Testing Standards and Techniques
    - Heavy Vehicle EDR Extraction and Analysis Methods
    - Drone Mapping Techniques and Processing
    - Data Processing and Analysis with Cloud Compare
    - Photogrammetry Software Methods and Techniques
    - Technology for Capturing Photo/ Video Demonstratives of Available Driver Views
    - Telemetry Overlay Software Techniques and Processing
    - VCrash Animations and Simulations for Pedestrian and Bicycle Collisions
    - Monte Carlo Statistical Analysis for Uncertainty Ranges
    - Human Factors Analysis of Road User Detection and Response
    - Transportation Engineering Design and Limitations for Micromobility Vehicles on Sidewalks
    - EDR Vehicle Yaw and Steering Data Simulation, Analysis and Modeling
    - Contextual Evaluation of Slow-Moving Lead Vehicle Scenarios and Looming Calculations
    - Comprehensive Context Points for Collision Reconstructions

HVE

- Training Seminar

Law Enforcement & Emergency Services Video Association (LEVA International, Inc.)

- Video Analysis in Collision Reconstruction, 2024

Light Point Scientific, LLC

- Motorcycle Collision Reconstruction, 2018
- Advanced Photogrammetry for Collision Reconstruction, 2019
- Speed from Video Analysis, 2024

Northwestern University Center of Public Safety

- Advanced Driver Assistance Systems for the Crash Reconstructionist, 2026

PC-Crash

- PC-Crash and PC-Rect Training Workshop, June 2000

Professional Development

Society of Automotive Engineers (SAE)

- Vehicle Crash Reconstruction: Principles and Technology, August 2019
- Accident Reconstruction, The Autonomous Vehicle and ADAS, 2020
- Advanced Applications of Heavy Vehicle EDR Data, 2023

Virtual Crash

- Collision Simulation and Reconstruction, 2021

Technical Reports and Publications

"Physical Evidence Analysis and Roll Velocity Effects in Rollover Accident Reconstruction", SAE World Congress, 2001

Seminar and Course Presentations

"Physical Evidence Analysis and Roll Velocity Effects in Rollover Accident Reconstruction" *SAE World Congress*, 2001