

Curriculum Vitae

Erich L. Breedlove

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BACKGROUND

Mr. Breedlove is a Forensic Specialist with over 11 years of experience in accident reconstruction and forensic consulting. He has worked on hundreds of accident reconstruction cases over the years, specializing in collisions with automobiles, tractor-trailers, pedestrians, motorcycles, and bicycles. His background includes detailed inspections of vehicles and scenes and analysis of electronic module downloads for both automobile airbag control modules and tractor-trailer electronic control modules. Mr. Breedlove also has experience with 3D modeling and 3D simulation using technologies such as Pix4D aerial mapping, PC-Crash, and FARO laser scanning. Other related work includes ANSI, ASTM, and SAE research, articulated vehicle turning analysis, and photogrammetry modeling.

AREAS OF EXPERTISE

- Automobile Collisions
- Tractor-Trailer Collisions
- Bicycle Accidents
- Motorcycle Accidents
- Pedestrian Accidents
- Automobile Electronic Data Recorder downloads
- Tractor-Trailer Engine Control Module and Electronic Data downloads
- Aerial Mapping and 3D modeling
- Surveillance Video Analysis
- Articulated Vehicle Sweep Analysis
- Workplace Safety

PROFESSIONAL LICENSES & CERTIFICATIONS

- FAA Remote Pilot Certification, #4080264
- FARO 3D Laser Scanner and Scene Software
- Certified Counter Balanced Forklift Operator

PROFESSIONAL EXPERIENCE

2019 – Present | Quality Forensic Engineering, LLC | Forensic Specialist, Tallahassee, FL

2010 – 2019 | BEC Consulting, LLC | Engineering Technician, Network Administrator - 2014 to 2019
| Engineering Technician – 2010 - 2014, Tallahassee, FL

NOTABLE PROJECTS

Forensic Engineering

Mr. Breedlove has been involved in several forensic engineering projects, including the following:

- Vehicular accident reconstruction
- Tractor-trailer accident reconstruction
- Bicycle accident reconstruction
- Motorcycle accident reconstruction
- Pedestrian accident reconstruction
- Automobile electronic data recorder downloads
- Tractor-trailer engine control module and electronic data downloads
- Surveillance video analysis
- Restraint system analysis
- Collision and visibility reenactments
- Rapid response inspections
- Vehicle dynamics
- Aerial mapping

PROFESSIONAL ASSOCIATIONS

- National Association of Professional Accident Reconstruction Specialists (NAPARS)

COURSEWORK/CONTINUING EDUCATION

May 2023 | "Heavy Vehicle Forensic Mechanical Inspection", Northwestern University Center for Public Safety, Rockford, IL

April 2023 | "Nighttime Recognition and Visibility" by Swaroop Dinkar, World Reconstruction Exposition, Orlando, FL

April 2023 | "Methods for Establishing Motorcycle Impact Speed" by Louis Peck, World Reconstruction Exposition, Orlando, FL

April 2023 | "The Use of Mobile Device Lidar in Collision Reconstruction" by Eugene Liscio, World Reconstruction Exposition, Orlando, FL

April 2023 | "Kawasaki MC EDR" by Ed Fatzinger, World Reconstruction Exposition, Orlando, FL

April 2023 | "Heavy Vehicle EDR Update" by Bradley Higgins, World Reconstruction Exposition, Orlando, FL

April 2023 | "Toyota TSS VCH Research and Testing" by Tim Reust, James Moore, World Reconstruction Exposition, Orlando, FL

April 2023 | “Next Generation GM ACM EDRs / ASCMs / Front Camera Module EDRs” by Don Floyd, World Reconstruction Exposition, Orlando, FL

April 2023 | “Underride Reconstruction, Reporting, and Regulations” by Aaron Kiefer, World Reconstruction Exposition, Orlando, FL

April 2023 | “Reconstruction of Autonomous Vehicle and ADAS Tech Collisions” by Alan Moore, World Reconstruction Exposition, Orlando, FL

April 2023 | “Commercial Vehicle Collision Mitigation Systems” by Tim Cheek, David Plant, Wesley Grimes, World Reconstruction Exposition, Orlando, FL

April 2023 | Crash Testing, World Reconstruction Exposition, Orlando, FL

June 2022 | “Mock Trial” by Dr. Brian G. Pfeifer, Quality Forensic Engineering, LLC, Tallahassee, FL

May 2022 | “Technology & Accident Reconstruction” by Christian A. Yates, Quality Forensic Engineering, LLC, Tallahassee, FL

May 2022 | “Tractor-Trailer Collision Reconstruction” by Dr. Brian G. Pfeifer, Quality Forensic Engineering, LLC, Tallahassee, FL

May 2022 | “Pedestrian & Bicycle Accident Reconstruction” by Dr. Brian G. Pfeifer, Quality Forensic Engineering, LLC, Tallahassee, FL

May 2022 | “Accident Reconstruction 101” by Dr. Brian G. Pfeifer, Quality Forensic Engineering, LLC, Tallahassee, FL

May 2022 | “Fieldwork Safety” by Christian A. Yates, Quality Forensic Engineering, LLC, Tallahassee, FL

May 2022 | “Cyber Security Training” by Brian Rode, Premiere Computer Solutions, Tallahassee, FL

December 2021 | “Download and Analysis Techniques for Hyundai and Kia Vehicles” and “Engine Control Modules” by Christian A. Yates, Quality Forensic Engineering, LLC, Tallahassee, FL

November 2021 | “Using drones & 3D laser scanners, FARO Live Training”, FARO Virtual Classroom, Tallahassee, Florida

July & October 2021 | “Photogrammetry Techniques and Procedures” by Patrick D. Weber, Quality Forensic Engineering, Tallahassee, Florida

July 2021 | “Fieldwork Safety Procedures” by Christian A. Yates, Quality Forensic Engineering, LLC, Tallahassee, FL

June 2021 | “Cyber Security Training” by Brian Rode, Premiere Computer Solutions, Tallahassee, FL

June 2021 | “PC-Crash Webinar Online Training Using Video Data”, PC-Crash, Online Webinar

June 2021 | Recertification Training and Testing for FAA Part 107 Remote Aircraft Pilot Licensing

April 2021 | “Operator Safety Training – Sit-down Counter Balance Forklifts”, Ring Power Lift Trucks, Orlando, FL

March 2021 | “PC-Crash Essentials, Expert, Theory, and Validation Training”, PC-Crash, Online Webinar

February 2021 | “PC-Crash Simulation Software Self-Paced Video Tutorial Training”, PC-Crash, Online Webinar

August 2020 | “Traffic Crash Reconstruction I” Northwestern University Traffic Institute, Tallahassee, FL

July 2020 | “Tractor-Trailer Inspection 101” by Christian A. Yates, Quality Forensic Engineering, Tallahassee, FL

July 2020 | “Berla iVe Overview” by Christian A. Yates, Quality Forensic Engineering, LLC, Tallahassee, FL

May 2020 | “FARO Merging LS and UAV Point Clouds using Cloud Compare”, FARO Virtual Classroom, Tallahassee, Florida

May 2020 | “FARO Creating Courtroom Deliverables”, FARO Virtual Classroom, Tallahassee, Florida

April 2020 | “Bendix Air Brake Training”, Bendix On-Line Brake School, Tallahassee, FL

April 2020 | “Pix4D – Pix4D Mapper and Workflows”, Pix4D Workshop, Tallahassee, Florida

February 2020 | “Fundamentals of CDR Downloads” by Christian A. Yates, Quality Forensic Engineering, LLC, Tallahassee, FL

February 2020 | “ACM Repowering Rig and the CDR900” by Christian A. Yates, Quality Forensic Engineering, LLC, Tallahassee, FL

February 2020 | “Fieldwork Safety Procedures” by Christian A. Yates, Quality Forensic Engineering, LLC, Tallahassee, FL

April 2018 | “Operator Safety Training – Sit-down Counter Balance Forklifts”, Ring Power Lift Trucks, Tallahassee, FL

November 2017 | Remote Pilot 101 Part 107 Course Remote Pilot 101 Virtual Training Tallahassee, FL

September 2017 | “ARC-CSI Crash Conference”, Collision Publishing, Collision Safety Institute, Las Vegas, Nevada

April 2015 | “Operator Safety Training – Sit-down Counter Balance Forklifts”, Ring Power Lift Trucks, Tallahassee, FL

July 2011 | “ARAS 360 3D Computer Diagramming for Crash Reconstruction”, ARAS 360 Technologies Inc., Tallahassee, FL

June 2011 | “Safe Operation of Powered Industrial Truck”, BEC Consulting, Tallahassee, FL

PRESENTATIONS

Breedlove, Erich L., “Understanding Electronic Data in Your Automobile and Commercial Vehicle Cases – Part 2”, Quality Forensic Engineering, October 4, 2022

Breedlove, Erich L., “Understanding Electronic Data in Your Automobile and Commercial Vehicle Cases – Part 1”, Quality Forensic Engineering, August 30, 2022

Breedlove, Erich L., “Adding an Aerial Perspective to Your Trucking Case”, Benedict Engineering, LLC, Keenan Trial Institute, May 15, 2019

EDUCATION

- Completed 36 Hours toward BS in Computer Science, Minor in Communication, Florida State University, Tallahassee, Florida, 2013 – 2015
- Associate in Arts, Tallahassee Community College, Tallahassee, Florida, 2013

May 25, 2023