



Curriculum Vitae

**Jeffery A. Brewer**  
Forensic Consultant



## Professional Profile

At Focus Forensics, Mr. Brewer provides technical data collection, drafting, visualization, and 3D modeling support for Forensic Engineering investigations and analyses of transportation safety and collision events.

In addition to his extensive background in technical drafting and design plan development for mechanical, electrical, manufacturing, and military applications, he brings over 11 years of experience and technological development specific to the field of Forensic Engineering, having created drawings, engineering project plans, scene diagrams, vehicle models, and 3D renderings of vehicles and transportation scenes across all types of systems, including automobiles, pedestrians, bicycles, motorcycles, commercial vehicles, transit, highway-rail grade crossings, and work zone temporary traffic control.

Mr. Brewer utilizes cutting edge technology to capture evidence, preserve electronic information, process 3D point cloud environments and models, and produce forensic diagramming and 3-D modeling for the analysis and demonstrative visual communication of engineering concepts.

## Licensure and Professional Certification

Certified Bosch Crash Data Retrieval (CDR) Technician

## Contact Information

Cell: (813) 313-0371  
Brewer@focusforensics.com

## Tampa Office

133 E. 143<sup>rd</sup> Avenue  
Tampa, FL 33613

## Education

Bainbridge College  
*Bainbridge, Georgia*  
Associate of Applied Science Degree in  
Drafting Technology

United States Marine Corps  
*Camp Lejune, North Carolina*  
Basic Electrician School

## Work Experience

Focus Forensics, LLC  
Consultant: 2019-Present

Global Engineering and Scientific  
Solutions  
Technician: 2017-2019

Quest Engineering and Failure Analysis  
Technician: 2008-2017

Quality Plus Services  
CAD Designer: 2005-2008

Quincy Joist Company  
Draftsmen: 2004-2005

Steward Machine Company  
Draftsmen: 2002-2004

Lewis Carter Manufacturing Co.  
Sales: 1999-2002

Lynch Systems  
Machine Designer: 1996-1999

B.F.M., Inc.  
Project Manager Assistant: 1995-1996

East Bay Electric  
Electrician Helper: 1994

United States Marine Corps.  
Electrician (Desert Storm): 1990-1994



## Professional Development

### Collision Safety Institute / ARC

- Vetronix Crash Data Retrieval (CDR) Certified Analyst Course, 2008

### FARO

- FARO Reality for Crash Reconstruction, 2016

### 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

### LEICA Geosystems HDS

- LEICA Scan Station Laser Scanning System and Cyclone Point Cloud Processing Software, 2009

### Lightpoint Scientific, LLC

- Advanced Photogrammetry for Collision Reconstruction, 2019

### McNeel

- 3D Modeling using Rhinoceros, 2010

### Northwestern University Center for Public Safety

- Traffic Accident Reconstruction I, 2014

### Quest Engineering and Failure Analysis, Inc.

- Air Brake Seminar, 2008
- Crash Analysis and Crash Testing, 2009

### Society of Automotive Engineers (SAE)

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



## **Professional Development Continued**

### **Virtual Crash**

- Collision Simulation and Reconstruction, 2021

### **World Reconstruction Exposition (WREX)**

- World Reconstruction Exposition (WREX), 2023