



Curriculum Vitae

Patricia G. Chason
Forensic Consultant



Professional Profile

At Focus Forensics, Ms. Chason 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 her extensive background in technical drafting and design plan development for mechanical, electrical, manufacturing, and military applications, she brings over 16 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.

Ms. Chason 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.

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Tallahassee Office

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Education

Tallahassee Community College
Tallahassee, FL
Associate in Science, Graphic Design
Technology

Work Experience

Focus Forensics, LLC
Consultant: *2024-Present*

Quest Engineering & Failure Analysis
Graphic Designer *2008-2024*



Professional Development

Focus Forensics, LLC

- Transportation Engineering and Accident Reconstruction Insights, 2025
 - o EDR Extraction and Analysis Methods for Video Radar Decision Units (VRDU)
 - o Acquisition and Analysis Methods for Temporary Roadway Conditions
 - o LIDAR Scanning and Data Processing
 - o Air Brake Testing Standards and Techniques
 - o Heavy Vehicle EDR Extraction and Analysis Methods
 - o Drone Mapping Techniques and Processing
 - o Data Processing and Analysis with Cloud Compare
 - o Photogrammetry Software Methods and Techniques
 - o Technology for Capturing Photo/ Video Demonstratives of Available Driver Views
 - o Telemetry Overlay Software Techniques and Processing
 - o VCrash Animations and Simulations for Pedestrian and Bicycle Collisions
 - o Monte Carlo Statistical Analysis for Uncertainty Ranges
 - o Human Factors Analysis of Road User Detection and Response
 - o Transportation Engineering Design and Limitations for Micromobility Vehicles on Sidewalks
 - o EDR Vehicle Yaw and Steering Data Simulation, Analysis and Modeling
 - o Contextual Evaluation of Slow-Moving Lead Vehicle Scenarios and Looming Calculations
 - o Comprehensive Context Points for Collision Reconstructions

Lightpoint Learning

- Advanced Photogrammetry for Collision Reconstruction, 2025

Northwestern University Center of Public Safety

- Advanced Driver Assistance Systems for the Crash Reconstructionist, 2026

Quest Engineering and Failure Analysis, Inc.

- Motor Vehicle Accident Reconstruction, Crash Analysis and Crash Testing, 2006
- Crash Analysis and Crash Testing, 2009

Virtual Crash Accident Reconstruction Software

- Animations, 2024
- Building Environments, 2024
- Building Vehicles, 2024
- Diagramming, 2024
- vCrash Interface, 2024