

Curriculum Vitae

**Clayton K. McCall, B.S.M.E.**  
Forensic Consultant



## Professional Profile

Mr. McCall is a degreed Mechanical Engineer and accident reconstruction consultant with over 20 years of experience in the investigation, analysis, and evaluation of vehicle collisions and Transportation Safety incidents. Over the course of his practice, Mr. McCall has managed hundreds of accident reconstruction engineering projects evaluating the vehicular, roadway, and driver factors related to incidents involving all modes of travel, including passenger vehicle, commercial vehicle, motorcycle, ATV, bicycle, pedestrian, industrial equipment, site development, work zone maintenance of traffic, and highway-rail grade crossings.

At Focus Forensics, he applies his broad and deep mechanical and automotive engineering experience to data collection, testing, 3D modeling, vehicle dynamics evaluation, verbal and written communication, and visual demonstration of engineering concepts. Mr. McCall utilizes cutting edge technology to capture evidence and preserve electronic information, including FARO 3D laser scanning, Total Station laser mapping, Bosch CDR vehicle download systems, commercial vehicle Engine Control Module (ECM) data extraction systems, unmanned aerial vehicle (UAV) mapping and imagery, forensic photography, photogrammetry, and light meter documentation. He is skilled in forensic diagramming and 3D modeling utilizing leading engineering software packages, and is a skilled communicator with clients and public audiences. From on-scene investigation to determining causes and countermeasures, Mr. McCall employs proven scientific methodologies and advanced technology for data collection, engineering evaluation, and comprehensive communication. He has testified at trial as an expert in his field.

## Licensure and Professional Certification

Certified Bosch Crash Data Retrieval (CDR) Technician

OSHA Industry Outreach Training Certification

Remote Pilot – Small Unmanned Aircraft System  
*Federal Aviation Administration*

## Contact Information

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### Tallahassee Office

3011 Powell Road, Office 1-B  
Tallahassee, FL 32308

### Tampa Office

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

## Education

Mississippi State University  
*Starkville, MS*  
B.S. Mechanical Engineering

## Work Experience

Focus Forensics, LLC  
Consultant: 2020-Present

Global Engineering and Scientific  
Solutions  
Project Manager: 2007-2020

Benedict Engineering Company  
Project Manager: 2000-2006



## Professional Development

### Collision Safety Institute / ARC

- ARC-CSI Crash Team Boot Camp, 2013
- Analysis of Collisions Involving Pedestrians or Bicyclists, 2004
- Vetronix Crash Data Retrieval (CDR) Certified Analyst Course, 2003

### Drivers' Response Institute (DRI)

- Driver Response Research Forum, 2022

### Drone Launch Academy

- FAA Part 107 Remote Pilot Course, 2020

### FAA Aviation Safety

- Part 107 Small UAS Recurrent, 2022

### 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

### FARO

- FARO Focus 3D Scanner Training, 2016

## Florida/ Georgia Trucking Association

- Truck Safety Inspection Program (Safety Management Councils), 2001

## Institute of Police Technology and Management

- Lecture Series, 2019

## National Association of Professional Accident Reconstruction Specialists (NAPARS)

- Symposium on EDR Research and Training, 2024

## Northwestern University Center for Public Safety

- Traffic Accident Reconstruction, 2002
- Traffic Accident Reconstruction, 2000

## OSHA

- General Industry Outreach Training Certification, 2001-2002

## PhotoModeler Technologies

- PhotoModeler for Collision Investigation, 2023

## Society of Automotive Engineers (SAE)

- Fundamentals of Vehicle Dynamics, 2021
- Heavy Vehicle EDR Course, 2015
- Advanced Applications of Heavy Vehicle EDR Data, 2023

## Virtual Crash

- Collision Simulation and Reconstruction, 2021

## World Reconstruction Exposition (WREX)

- World Reconstruction Exposition (WREX), 2023