

Curriculum Vitae

**Steven J. Herbert, P.E.**

Forensic Engineer



**Professional Profile**

At Focus Forensics, Mr. Herbert conducts investigations and analyses of collision events, including factors related to vehicles, drivers, and roadway environments. He applies his passion for vehicular collision reconstruction and his mechanical engineering education and 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. He is active in the ongoing engineering research projects conducted by Focus Forensics in the fields of vehicle dynamics, collision reconstruction engineering methodologies, and applications of new technology to the understanding of human, vehicular, and roadway factors in transportation safety.

His role includes field investigations, data collection, vehicle and scene documentation, electronic data retrieval, and inspections of vehicular and roadway systems. Mr. Herbert 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 also incorporates the latest developments in engineering software, modeling, physics calculation methods, and rigorous analytical tools for evaluation of a wide variety of collision scenarios. Mr. Herbert is skilled in forensic diagramming and 3-D modeling for the analysis and demonstrative visual communication of engineering concepts.

**Licensure and Professional Certification**

Professional Engineer, State of Florida, # 92104

Engineering Intern

*Florida Board of Professional Engineers (#1100021206)*

Remote Pilot – Small Unmanned Aircraft System

*Federal Aviation Administration*

**Professional Affiliations**

National Association of Professional Accident Reconstruction Specialists (NAPARS), Member

Society of Automotive Engineers (SAE), Member

**Contact Information**

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Jupiter, FL 33458

**Education**

Pennsylvania State University

*Reading, Pennsylvania*

B.S. in Mechanical Engineering

**Work Experience**

Focus Forensics, LLC

Consultant: *2019-Present*

Kinetic Engineering and Accident Reconstruction Services -

Project Consultant: *2017-2019*

SFS Intec, Inc. -

Product Engineering Intern: *2017*



## **Professional Development**

### **Collision Safety Institute/ ARC**

- ARC-CSI Crash Conference, 2017

### **Institute of Police Technology and Management (IPTM)**

- Symposium of Traffic Safety, 2021

### **Lightpoint Scientific, LLC**

- Advanced Photogrammetry for Collision Reconstruction, 2019

### **Northwestern University Center of Public Safety**

- Traffic Crash Reconstruction I, 2017
- Crash Data Retrieval Technician, 2018
- Crash Data Retrieval – Data Analyst, 2018

### **Society of Automotive Engineers (SAE)**

- Accessing and Interpreting Heavy Vehicle Event Data Recorders, 2018
- Vehicle Crash Reconstruction: Principles and Technology, 2019
- Accident Reconstruction, The Autonomous Vehicle and ADAS, 2020
- Fundamentals of Vehicle Dynamics, 2021