



Curriculum Vitae

Trent M. Ksionek, P.E.
Forensic Engineer



Professional Profile

Mr. Ksionek is a licensed Professional Engineer practicing in the fields of mechanical engineering, collision reconstruction, vehicle dynamics, and failure analysis. His extensive background includes the design and manufacturing of vehicle systems and other mechanical engineering components as well as hands-on applications as a race car driver and mechanic. Mr. Ksionek brings his passion for understanding vehicle dynamics and collision events to his work at Focus Forensics, where he conducts investigations and engineering analysis of factors related to vehicles, drivers, and roadway environments. His training and practical experience in the engineering field include data collection at vehicles and scenes, 2D and 3D modeling, analytical tools and calculation methods, applications of new technologies, and driver human factors considerations. Mr. Ksionek has completed hundreds of comprehensive collision reconstruction analyses and is certified as an Accredited Traffic Accident Reconstructionist by ACTAR.

His role includes field investigations, data collection, vehicle and scene documentation, electronic data retrieval, and inspections of vehicular and roadway systems. Mr. Ksionek 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. Ksionek 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, # 92912

Accredited Traffic Accident Reconstructionist (ACTAR), #3733

Remote Pilot – Small Unmanned Aircraft System
Federal Aviation Administration

Intermediate Temporary Traffic Control, Florida Department of Transportation
(FDOT)

Certified Crash Data Retrieval (CDR) Technician and Analyst, Bosch

Contact Information

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West Palm Beach Office

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Jupiter, FL 33458

Education

Florida Atlantic University
Boca Raton, Florida

B.S. in Mechanical Engineering, 2017
M.S. in Business Administration,
2022

Work Experience

Focus Forensics, LLC
Engineer: 2022-Present

Kimley-Horn
Forensics Analyst: 2017-2021

Pratt & Whitney
Quality Engineering Intern: 2016

Orlando Utilities Commission
Mechanical Engineering Intern: 2015



Professional Affiliations

Society of Automotive Engineers (SAE), Member

Professional Development

Ai2-3D

- Zero to Hero in Cloud Compare, 2023

Focus Forensics, LLC

- Transportation Engineering and Accident Reconstruction Insights, 2022

Kimley-Horn

- Certified Accident Investigator, 2018
- Certified Hyundai & Kia EDR Specialist, 2018

Leica Geosystems

- Leica Geosystems 3D Scanning Course, 2018

Lightpoint Learning

- Motorcycle Collision Reconstruction, 2022

Metro Florida Safety Council

- Maintenance of Traffic, Intermediate Level, 2018

Northwestern University Center for Public Safety

- Crash Data Retrieval (CDR) Technician, 2018
- Traffic Crash Investigation 1, 2018
- Traffic Crash Investigation 2, 2018
- Traffic Crash Reconstruction 1, 2018
- Traffic Crash Reconstruction 2, 2018
- Heavy Vehicle Crash Reconstruction, 2019
- Advanced Crash Reconstruction Utilizing Human Factors, 2019

PhotoModeler Technologies

- PhotoModeler for Collision Investigation, 2018

SAE International

- Vehicle Crash Reconstruction: Principles and Technology, 2022

World Reconstruction Exposition (WREX)

- World Reconstruction Exposition (WREX), 2023