



BACKGROUND

Mr. Kline earned a Bachelor of Science degree in Mechanical Engineering from Lehigh University. He operates and inspects Heavy Vehicles and specializes in the reconstruction of collisions involving commercial and passenger vehicles. Mr. Kline is certified by the Society of Automotive Engineers (SAE) to access and interpret Heavy Vehicle Event Data Recorders in commercial vehicles and is certified as a BOSCH Crash Data Retrieval (CDR) Technician. In addition, he is accredited by the Accreditation Commission for Traffic Accident Reconstructionists (#3572) and is certified to acquire and analyze data from Vehicle Infotainment and Telematics systems. Mr. Kline specializes in documenting evidence by utilizing three-dimensional laser scanning.

Mr. Kline is a nationally certified firefighter and emergency first responder (NFPA 1001) and has completed the Emergency Vehicle Driver Training course. Mr. Kline assisted in creating an emergency vehicle driver training program for new drivers and driver recertification in his fire department, where he currently serves as a training instructor in the operation of emergency vehicles. He participates in internal disciplinary hearings if an apparatus event occurs.

Mr. Kline's academic, professional, and emergency first responder experience provides a unique combination of knowledge in the fields of accident reconstruction and forensic science. Currently, he specializes in the investigation of all types of motor vehicle and commercial collisions, including, but not limited to, commercial vehicle accident reconstruction, imaging of event data recorders in commercial and passenger vehicles, automotive fraud, and determination of liability.

AREAS OF SPECIALTY

- Accident Reconstruction
- EDR (Black Box) Imaging
- 3D Laser Scanning
- Emergency Vehicle Operations
- Vehicle Infotainment / Telematics Systems
- Heavy Truck Accident Reconstruction
- Heavy Truck EDR (Black Box) Imaging & Analysis
- Heavy Truck Inspections
- Heavy Truck Operator Behavior

EDUCATION

- Master of Business Administration - Finance and Engineering Management, Drexel University, Philadelphia, PA, September 2012
- Bachelor of Science - Mechanical Engineering, Lehigh University, Bethlehem, PA, May 2009
- Accessing and Interpreting Heavy Vehicle Event Data Recorders, Society of Automotive Engineers, Appleton, Wisconsin
- Bendix Heavy Vehicle Air Brake Systems and Components Training
- Bosch Full CDR Technician, University of North Florida Institute of Police Technology and Management
- Vehicle System Forensics, Berla Corporation, Annapolis, Maryland
- FARO 3D Laser Scanning
- Firefighter 1 International Fire Service Accreditation Congress (IFSAC) Certification, Department of Public Safety, Bucks County Community College

- Firefighter 2 National Pro Board Certification, Department of Public Safety, Bucks County Community College
- Hazardous Materials Operations National Pro Board Certification, Department of Public Safety, Bucks County Community College
- Emergency Vehicle Operations Course, Department of Public Safety, Bucks County Community College
- Pump 1, Department of Public Safety, Bucks County Community College
- Basic Vehicle Rescue – Awareness, Pennsylvania Department of Health
- Basic Vehicle Rescue – Operations, Pennsylvania Department of Health
- Basic Vehicle Rescue – Technician, Pennsylvania Department of Health
- Basic Vehicle Rescue Technician Certification, Certification Number 191482, Pennsylvania Department of Health
- Basic Vehicle Rescue – Heavy Vehicle Technician, Pennsylvania Department of Health

PROFESSIONAL EXPERIENCE

May 2017 – Present | ARCCA, Incorporated | Senior Accident Reconstructionist

- Investigates and reconstructs passenger and commercial vehicle collisions
- Images Event Data Recorders in commercial and passenger vehicles
- Acquires and analyzes data from vehicle infotainment and telematics systems
- Documents and analyzes evidence utilizing 3D Laser Scanning hardware and software
- Assesses occupant motion and vehicle dynamics in response to applied crash forces
- Evaluates restraint system usage and exposure to injury mechanisms in collisions
- Utilizes reconstruction software such as EDCRASH and SCENE
- Conducts vehicle, site, and evidence inspections
- Conducts static push / pull tests

Process Engineer | Flexible Circuits, Incorporated, Warrington, PA

- Conducted root cause analysis for multi-faceted manufacturing process
- Developed processing criteria for products from raw materials to finished goods in ISO certified environment and led production personnel in lean manufacturing improvements throughout facility. Focused primarily on waste reduction and ergonomic enhancements.

Manufacturing Engineer | Lockheed Martin Mission Systems and Training, Moorestown, NJ

- Conducted root cause failure analysis for complex radar system components. Implemented process changes as corrective actions. Documented material and process defects found during production.
- Provided technical support for \$3.9M startup manufacturing work cell by reviewing and updating manufacturing processes, troubleshooting production issues and driving material improvements.

PROFESSIONAL AFFILIATIONS

- Society of Automotive Engineers (SAE)
- National Association of Professional Accident Reconstruction Specialists (NAPARS)

COURSE INSTRUCTION

- Harrington, S.F., Kline, S. *Heavy Vehicle Crash Reconstruction and EDR Imaging*. Citadel Risk Management, Fairfield, NJ, December, 2017.
- Kline, S. *Black Box, Infotainment and Telematics Vehicle Systems Forensics*. American Family Insurance Group, Madison, WI, April, 2018.
- Kline, S. *Black Box, Infotainment and Telematics Vehicle Systems Forensics*. NJAJ Boardwalk Seminar, Atlantic City, NJ, May, 2018.
- Kline, S. *Black Box, Infotainment and Telematics Vehicle Systems Forensics*. NJSBA, Atlantic City, NJ, May, 2018.
- Kline, S. *Black Box, Infotainment and Telematics Vehicle Systems Forensics*. Salmon, Ricchezza, Singer & Turchi, LLP, Sewell, NJ, May, 2018.
- Kline, S. *Black Box, Infotainment and Telematics Vehicle Systems Forensics*. Kemper Insurance, MA, March, 2019.
- Kline, S. *Black Box, Infotainment and Telematics Vehicle Systems Forensics*. Geico Insurance, Sewell, NJ, March, 2019.
- Kline, S. *Black Box, Infotainment and Telematics Vehicle Systems Forensics*. Cincinnati Insurance, OH, September, 2019.
- Kline, S. *The Latest in Trucking Accident Reconstruction*. Freeman Mathis & Gary, LLP, Atlanta, GA, September, 2019.
- Kline, S. *Accident Reconstruction Tools and Technology*. New Jersey Manufacturers, May, 2020.
- Kline, S. *Accident Reconstruction Tools and Technology*. Kowalski & DeVito, June, 2020.
- Kline, S. *Utilizing the Latest in Accident Reconstruction Technology*. Sedgwick Claims Management Services, NJ, May, 2020.
- Kline, S. *Utilizing the Latest in Accident Reconstruction Technology*. NJAJ Boardwalk Seminar, August, 2020.

ADDITIONAL EXPERIENCE

Lieutenant, Southampton Fire Company No. 1 | Southampton, PA | 2001 – Present

- Line officer in a volunteer fire company responding to ~500 emergencies each year.
- Develop training materials for practical company training. Helped create new driver training program for all members on vehicles up to 40' with GVWR 50,000lbs
- Helped create annual driver refresher training program for all company drivers
- Train new and current drivers on emergency vehicle operation

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