



**R. SCOTT KING, BSME**

Principal Automotive/Mechanical Engineer

**EDUCATION:**

Drexel University, Philadelphia, PA: BS Mechanical Engineering, 1997

Automotive Training Center, Lionville, PA: General Automotive Technology, 1983

**CONTINUING EDUCATION, LICENSES AND CERTIFICATES:**

Event Data Recorder Use In Traffic Crash Reconstruction – Update, Abington, PA, February 2019

Event Data Recorder Use in Traffic Crash Reconstruction – Update, Abington, PA, June 2014

Accessing and Interpreting Heavy Vehicle Event Data Recorders, SAE, May 2013

GPS – New Technology in Accident Reconstruction, NASP, September 2011

GPS Forensics Training, Blackthorn2 Certified, April 2011

Bosch CDR Technician and Data Analyst Certification Training Series: Certified Crash Data Retrieval

Specialist – CDR Technician and Data Analyst, April 2009

SAE International Highway Vehicle Event Data Recorder Symposium: 2007 Update

Bendix Commercial Truck and Trailer Braking Systems

Crash Data Retrieval System Technician Certification by Vetronix and CSI

Certified Crash Data Retrieval System Analyst by Vetronix

Pennsylvania Licensed Safety Inspection Mechanic: Passenger Vehicles, Trucks over 17,000 Pounds and

Trailers over 10,000 Pounds, Buses and Motorcycles

**PROFESSIONAL ORGANIZATIONS:**

National Fire Protection Association

Society of Automotive Engineers

American Society of Mechanical Engineers

Member, Technology & Maintenance Council of the American Trucking Associations.

Member, SAE Vehicle Event Data Interface Technical Committee and Data Definitions Sub-Committee.

Committee's Purpose to Define and Develop Technical Requirements and Industry Standards for On-Board

Event Data Recorders Culminating in Issuance and Publication of SAE Recommended Practice Document J1698

**PROFESSIONAL EXPERIENCE:**

**April 1999 - DJS Associates, Inc., Abington, PA, Principal Automotive/Mechanical Engineer**

Responsibilities Include: Vehicular Inspections including Cars, Trucks, Trailers and Motorcycles; Retrieval and Analysis of Information From Commercial and Passenger Vehicle Event Data Recorders and Global Positioning Devices; 3-Dimensional High Definition Survey Vehicle Documentation; Engineering Analysis of Vehicle Components and Systems for Failure Cause, Origin and Resulting Effects.

**1988 - 1996 Kenneth G. Eland, Transportation Management Services, West Chester, PA**

Responsibilities Included: **Lead Investigator/Consultant**, Post Accident Investigation and Diagnosis of Vehicles for Cause-Related Defects or Malfunctions. Inspection and Photographic Documentation of all Automotive Parts of Vehicles; Post-Accident Preliminary Analysis.

## TECHNICAL EXPERIENCE:

- 1997 – 1999** Boeing Helicopters, Ridley Park, PA: **Lead Design Engineer**, Mechanical Flight Control Systems. Responsibilities Included: Development of Mechanical and Electromechanical Designs Providing Operational and Performance Requirements of New-Design and Modification Programs; Developed Manufacturing and Design Improvements Utilizing CATIA-3D Solid Modeling and CAD/CAM Technology; Provided Engineering Support to Aircraft Manufacturing, Flight-Test and Service Communities; Identified and Remedied Manufacturing and Design Defects; Performed Testing and Failure Analysis of Mechanical Systems; Prioritized, Delegated and Managed Engineering Design Activities; Prepared and Presented Proposals to Senior Management and Multi-National Aircraft Communities.
- 1987 – 1997** James Chevrolet, West Chester, PA: **Senior Automotive Technician**. Responsibilities Included: Identifying Cause and Corrective Actions of Failed Electrical, Mechanical and Hydraulic Systems; Performed Maintenance and Repairs on General Motors Product Line; Specialized in Electrical Diagnostics and Repair; Performed Pennsylvania Safety and Emission Inspections.
- 1983 – 1987** Penske Chevrolet, King of Prussia, PA: **Automotive Technician**. Responsibilities Included: Performance of Diagnostic, Maintenance and Repair on Chevrolet Product Line; Performed Pennsylvania Safety and Emission Inspections.
- 1982 – 1983** Thompson's Automotive, West Chester, PA: **Pennsylvania State Inspection Mechanic**
- 1981 – 1982** Goshenville ARCO, West Chester, PA: **Pennsylvania State Inspection Mechanic**
- 1980 – 1981** Matthew's Ford, Paoli, PA: **Pennsylvania State Inspection Mechanic/New-Vehicle Delivery Preparation**
- 1979 – 1980** Airport Amoco, West Chester, PA: **Pennsylvania State Inspection Mechanic**

## AREAS OF EXPERTISE:

- Mechanical Inspections of Passenger Cars and Trucks, Commercial Trucks and Trailers, Motorcycles and Wheeled Recreational Equipment, and Airport Ground Support Equipment Including Cargo Tugs, Towed Vehicles, and Related Equipment
- Passenger Vehicle Event Data Recorder Technology; Retrieve and Analyze Data From General Motors, Ford, Jeep, Chrysler, Toyota, Mitsubishi, Isuzu, Sterling, Suzuki, Nissan, Honda, Volvo, BMW, Mercedes Benz and Fiat Passenger Vehicle Airbag Control Modules
- Heavy Vehicle Event Data Recorder Technology; Retrieve and Analyze Data from Caterpillar, Cummins, Mack, Detroit Diesel, International, Volvo, and Mercedes Benz Commercial Vehicle Engine Control Modules
- Global Positioning Satellite Technology; Data Retrieval and Analysis From GPS Devices Including Garmin, Magellan, Qualcomm, PeopleNet, and XetaNet
- Automotive and Commercial Truck Repair Facility Standards of Care, Vehicle Maintenance Standards, Records Retention Requirements, Technician Certification and Training; State and Federal Periodic Safety Inspection Standards and Requirements, Motor Carrier Safety Assessment Program (MCSAP) Inspections, Commercial Truck Roadside Inspections and Commercial Vehicle Safety Alliance North American Out-of-Service Criteria
- Engineering Analysis of Mechanical Failures and Design and Manufacturing Defects; Vehicle Safety Standards; Vehicular Systems including Air Bags: Air, Electric, and Hydraulic Braking Systems: Drive-Train, Electronic Engine Controls and Systems; Fuel, Ignition, Occupant Restraints, Steering, Suspension, Locks and Theft Deterrent

**Numerous Continuing Education Courses in Field of Expertise Taken through GM Service Tech Group from 1983 – 1997. Subjects Include:**

**Transmission and Transaxle**

4T60/4T60E 4-Speed Automatic Transaxle  
4L80E 4-Speed Automatic Transmission  
Vibration Correction  
4L60E 4-Speed Automatic Transmission  
4T60 (440-T4) Automatic Transaxle  
Spectrum 3-Speed Automatic Transaxle  
125-125C (3T40) Automatic Transaxle  
4L60 (700-R4) Automatic Transmission

**Braking Systems**

Delphi VI ABS/Traction Control System  
Bosch ABS 2U and 2S Systems  
Four Wheel Anti-Lock Brakes  
Bosch 5 Series ABS/EBS  
Delco-Moraine ABS 6 – EBS  
Corvette Anti-Lock Brakes

**Engine Mechanical, Performance and Drivability**

ZR1 LT5 Engine Mechanical  
3.4 Liter Twin Cam Mechanical  
Central Sequential Fuel Injection, Trucks  
Corvette LT5 Fuel and Emissions  
Distributorless Ignition Systems  
Fuel Injection Drivability  
6.2L V-8 Diesel Engine Diagnostics  
Computer Command Control Carburetors  
Computer Command Control Fundamentals

**Electronic Diagnostics**

Electronic Strategy-Based Diagnostics  
GM Air Bag Systems  
Tech II Familiarization  
On-Board Diagnostics II  
Specialized Electronics Training  
Tech I Familiarization  
Venture Content Theft Deterrent

**PRESENTATIONS:**

“The Investigation of a Vehicle Collision: An Interactive Seminar Where YOU Take Part in the Investigation”, Forensic Storage & Technology Center, Southampton, PA, May 2019

“Big Rigs”, EMC Insurance Companies. Valley Forge Service Center, Pottstown, PA, March 2019

“The Road to Autonomous Vehicles: The Hundred Year Journey”, NJICLE Webinar, Abington, PA, July 2017

“Inspecting and Preserving the Vehicle and the Inspection Data Post Accident”, Pennsylvania Law Firm, Carlisle, PA, July 2016

“Event Data to Autonomous Vehicle Technologies: Where we are, Where we’re Going” 2016 PA Insurance Fraud Seminar, Hershey, PA, April 2016

"Event Data to Autonomous Vehicle Technologies: Where we are, Where we're Going", NDI/NDAA, Pittsburgh, PA, April 2016

"Event Data to Autonomous Vehicle Technologies: Where we are, Where we're Going", Pennsylvania Auto Crime Investigator's Association, Philadelphia, PA, February 2016

"The Implications of the Latest Wave of Automotive Technologies", National Association of Subrogation Professionals, Tahoe, NV, November 2015

"Crash Data Retrieval Systems – 'Black Box'", Donegal Insurance, Marietta, PA, August 2015

"Motorcycle Accident Investigation," National Association Subrogation Professionals, Abington, PA, April 2015

"Motorcycle Accident Investigation," Progressive Insurance, Plymouth Meeting, PA, March 2015

"Update on Automotive and Truck Electronic Data – EDR and GPS Technology," Montgomery County Judges & Lawyers, Blue Bell, PA, January 2015

"Collision Reconstruction & Automotive Technology to Limit High Exposure," Wyoming Bar Association, Cheyenne, WY, July 2014

"Event Data Recorder Technology Update," Pennsylvania Fraud Conference, Hershey, PA, April 2014

"Event Data Recorder, GPS and Automotive Investigations", PACIA, Philadelphia, PA, February 2014

"Accident & Automotive Investigations", MMG Insurance, Presque Isle, ME, January 2014

"GPS and EDR Technology", PA Auto Crime Investigators, Philadelphia, PA, April 2013

"Updates on GPS and EDR Technology", 2013 Boardwalk Seminar, Atlantic City, NJ, April 2013 (CLE)

"Updates on GPS and EDR Technology", Pennsylvania Fraud Conference, Hersey, PA, April 2013

"Truck Brakes and the Motor Carrier Safety Assessment Program (MCASP) Report", National Commercial Trucking Subrogation Strategies ExecuSummit, Uncasville, CT, November 2012

"Updates on Eye in the Sky, Black Box, iPhone and GPS Technology", New Jersey Association for Justice, East Rutherford, NJ, November 2012 (CLE)

"GPS Forensics", Northeast International Association of Investigators, Lancaster, PA, May 2012

"Computer Technology Inside & Outside the Vehicle", NJ Association for Justice, Atlantic City, NJ, April 2012

"New Technology for Investigation & Data Collection", 7<sup>th</sup> Annual National Subrogation Strategies ExecuSummit, Uncasville, CT, February 2012

"GPS Forensics", Pennsylvania Assoc. Criminal Investigations, Philadelphia, PA, November 2011

"GPS Forensics", Donegal Insurance, Marietta, PA, October 2011

"Automotive Investigations & Technology", Lightstream Communications, Bryn Mawr, PA, March 2011

"Keeping Up With the Latest Technology in Accident and Automotive Investigation", Gloucester County Legal Education Association, Vineland, NJ, November 2010 (CLE Credits)

"Black Box and Other Critical Technology to Investigate Vehicular Crashes", Aletheia Institute Video/Audio Broadcast Seminar, May 2010

"Sudden Acceleration and Crash Data Retrieval", National Association Subrogation Professionals, Concordville, PA, May 2010

"High-Definition Survey (HDS), Crash Data Retrieval (Black Box) and New Technology for Collision/Automotive Investigation and Reconstruction", Progressive Insurance, Plymouth Meeting, PA, October 2009

"2008 Update on Event Data Recorder Technology for Cars and Trucks", National Association of Subrogation Professionals, Allentown, PA, September 2008

"2008 Update on Event Data Recorder Technology for Cars and Trucks", International Association of Special Investigations Units, Atlanta, GA, September 2008

"2008 Update on Event Data Recorder Technology for Cars and Trucks", South Jersey Claims Association, Mt. Laurel, NJ, April 2008

"Trucks, Trucks and Only Trucks: Anatomy of Tractor-Trailer Accidents", Virginia CLE, Fairfax, VA, April 2008 (CLE Credits)

"Common Mechanical Defects that May Lead to Truck Accidents", Pennsylvania Law Firm's Annual Trucking Seminar, Harrisburg, PA, March 2008

"The Use of New Technology in Vehicular Reconstruction and Automotive Investigations", Association of Trial Lawyers-NJ, Atlantic City, NJ, April 2007

"Technological Advances in Accident Reconstruction, Automotive Investigations, High-Definition Surveying (HDS)", State Bar of Nevada, Las Vegas and Reno, February 2007 (CLE Credits)

"Technological Advances in Accident Reconstruction, Automotive Investigations and High-Definition-Scanning", Gloucester County Bar Association, Sewell, NJ, December 2006 (CLE Credits)

"Successful Subrogation Through Effective Use of New Technology", National Association of Subrogation Professionals, Orlando, FL, November 2006

"Event Data Recorder (Black Box) Analysis and New Data Collection Technology for Investigation of Vehicles and Trucks", State Farm Insurance, Plymouth Meeting, PA, April 2006

"Trucks, Trucks and Only Trucks: Investigating Tractor-Trailer Accidents", Gloucester County Bar Association, Sewell, NJ, March 2006 (CLE Credits)

"Trucks, Trucks and Only Trucks: Investigating Tractor-Trailer Accidents To Limit High Exposure" and "Up Close and Personal: Hands-on Inspections of Tractor-Trailers", National Association of Subrogation Specialists, Austin, TX, November 2005

"Insights Into Accident Reconstruction and New Technology", DRI, Chicago, IL, November 2005

"Trucks, Trucks and Only Trucks", Zurich Insurance, Princeton, NJ, September 2005

"Latest Advances in Accident Reconstruction, Automotive Investigations, Demonstrative Evidence and Computer Animations", Nevada Bar Association, Las Vegas and Reno, NV, July 2005 (CLE Credits)

"Successful In-House Investigation Techniques for Vehicular Collisions: Roadway, Driver and Vehicle Issues", State Bar of Arizona, Phoenix, AZ, April 2005 (CLE Credits)

"Automotive Investigations: Tires, Fires, Wires, Event Data Recorders and More", Erie Insurance, Bethlehem, PA, April 2005

"Black Box: Understanding the Issues", Keystone Legal Assistant's Association, Harrisburg, PA, October 2004

"Vehicle Defects, Automotive Claims and Black Boxes for Cars: What You Need to Know!" National Association of Subrogation Specialists, Phoenix, AZ, September 2004

"Trucks, Trucks and Only Trucks: Mechanical Investigations of Tractor-Trailer Accidents", Prominent Pennsylvania Law Firm, Hershey, PA, July 2004

"Investigating Tractor-Trailer Accidents", New Jersey Institute for Continuing Legal Education, New Brunswick, NJ, June 2004 (CLE Credits)

"Automotive Investigations: Fires, Tires, Wires and More", Erie Insurance, Fogelsville, PA, April 2004

"Technological Advances in Trucking Accident Investigation and Reconstruction", Defense Research Institute, St. Louis, MO, April 2004 (CLE Credits)

#### **PAPERS:**

"Diesel Engines Can Yield Important Clues," In Brief, June 2012

"Event Data Recorders: Past, Present & Future", February 2012

"Beyond Black Boxes", Trial Magazine, February 2011

“Techno Talk... What Your Vehicle is Saying These Days!”, PA Justice News, Volume 2, No. 4, September 2009

“Black Box Technology in Passenger Cars- 2007 Update”, Nevada Lawyer, January 2007

“Truck Black Box Data: Capabilities and Limitations”, In-Brief, ATLA-NJ, March 2003

“The Black Box: Technological Advances in Accident Investigation and Automotive Engineering”, Product Liability Reporter, July 2001

“Where the Rubber Meets the Road”, In-Brief, ATLA-NJ, September 2000

“Do You Know Where Your Tire Is...?”, In-Brief, ATLA-NJ, June/July 2000

“The Black Box and its Role in Accident Investigation and Reconstruction: An Introduction”, In-Brief, ATLA-NJ, September 1999