

**Professional Summary:**

Mr. Ensor is a Mechanical Engineer with nine years of experience in the forensic engineering field. He has conducted forensic investigations of mechanical component product failures; plumbing failures; material defects; corrosion damage; code and standard analysis (residential and commercial building codes, ICC Codes, NFPA Codes, ASTM, ANSI, etc.); residential and commercial construction defect claims; gas utility claims; residential, industrial, and commercial fires and explosions; vehicle fires; fuel gas plumbing and equipment; storm damage; structural water intrusions; personal injury investigations; and accident investigation and reconstruction of passenger vehicles.

Area of Expertise, but is not limited to:

- Fire and explosion origin and cause investigations
- Mechanical equipment fires
- Vehicle fires
- Water Intrusions
- Product liability testing
- Electric and gas appliance failures
- Plumbing failures
- Fuel gas plumbing and equipment
- Sump pump failures
- Foundation drainage and storm damage investigations
- Commercial and residential roofing
- Roof storm damage investigations (i.e., hail and wind)
- Building envelope defects
- Personal injury investigations
- Code and standard analysis and interpretation
- Accident investigation and reconstruction of passenger vehicles
- Event data recorder (EDR) crash data

**Licenses and Certifications:**

Professional Engineer, State of Texas (License Number: 138725)

Professional Engineer, State of Colorado (License Number: PE.0060041)

Professional Engineer, State of Louisiana (License Number: PE.0046296)

Professional Engineer, State of Alabama (License Number: PE50528)

Professional Engineer, State of Mississippi (License Number: 32557)

Certified Fire and Explosion Investigator, National Association of Fire Investigators (Originally obtained 3/18/2016)

FAA Part 107 Small Unmanned Aircraft Systems (sUAS) Remote Pilot (Drone) Certification  
Certified Bosch CDR Tool Technician

### Professional Experience:

EFI Global, Houston, TX, Forensic Engineer, 2019 - Present  
Rothfuss Engineering Company, Ellicott City, MD, Forensic Engineer, 2014-2019  
Department of Defense, Aberdeen Proving Grounds, MD, Test Engineer Co-Op Student, 2012-2013

### Specialized Education:

Expert Witness Courtroom Testimony, International Association of Arson Investigators, 2023  
Advanced Applications of Heavy Vehicle EDR Data, SAE International, 2023  
Accessing and Interpreting Heavy Vehicle Event Data Recorders, SAE International, 2023  
Heavy Vehicle Side and Rear Underride Speed Analysis, Scott Skinner, 2023  
Dashboard Cameras and Human Vision Study, William Messerschmidt, 2023  
Distracted Driving Crash Investigations, Christopher Sanchez, 2023  
High Speed Testing of FCW and AEW Systems, Shawn Harrington, 2023  
Commercial Vehicle Collision Mitigation Systems, Tim Cheek, David Plant, & Wesley Grimes, 2023  
EDR Accuracy of Modern Vehicles, Rick Ruth, 2023  
Accessing Toyota Event/Camera Data, Brad Muir & Nick Maz, 2023  
Nighttime Recognition and Visibility Study, Swaroop Dinakar, 2023  
Heavy Vehicle EDR Update, Brad Higgins, 2023  
Video Analysis in Collision Reconstruction, Benjamin Molnar, 2023  
Accident Reconstruction and ADAS, Alan Moore, 2023  
Advanced Tire Analysis and Forensics Course, Tennent and Associates, 2023  
Advanced Roofing Certification Class, Vale Training, 2022  
Traffic Crash Reconstruction, IPTM, 2021  
Advanced Traffic Crash Investigation, IPTM, 2021  
At-Scene Traffic Crash/Homicide Investigation, IPTM, 2020  
Bosch Crash Data Retrieval Tool Technician Training, IPTM, 2020  
HAAG Certified Residential Roof Inspector, HAAG Engineering, 2019  
Investigation of Gas and Electric Appliance Fires, Fire Findings, 2017  
Basic Corrosion Course, Appalachian Underground Corrosion Short Course, 2016  
International Fire, Arson, & Explosion Investigation, NAFI, 2016  
HVAC Workshop – Air Conditioning & Boilers, TPC Trainco, 2015  
Home Inspector Master Course, The American Home Inspectors Training Institute, 2015  
General Industry Safety and Health, Occupational Safety and Health Administration, 2014  
SolidWorks, York College of Pennsylvania, 2011

### Education:

Bachelor of Science, Mechanical Engineering, York College of Pennsylvania, York, PA, 2015

### Affiliations:

National Association of Fire Investigators (NAFI)  
National Association of Professional Accident Reconstruction Specialists (NAPARS)