

# Aaron R. Zeamer

IAAI-CFI(V), CFEI, FIT

Senior Consultant, Fire Investigation Team Lead



Mr. Zeamer is an International Association of Arson Investigators (IAAI) Certified Fire Investigator (CFI(v)) with an additional specialized accreditation in vehicle fires. Mr. Zeamer has qualified as an expert in fire origin and cause analysis, as well as accident reconstruction and vehicle powertrain failure mode analysis. He has been conducting fire origin and cause evaluations, as well as fire and explosion evaluations, since 2004. His services have been rendered by plaintiff firms, defense firms, individuals, and private companies to include insurance companies. His testimony has included fire origin and cause determination, failure mode analysis, and accident reconstruction.

Mr. Zeamer relies upon the facts present during an investigation and will not present his findings in any manner other than truthfully and accurately. He relies upon test data that has been substantiated, and peer reviewed throughout the industry to come to his conclusions and will not approach, or conduct, an investigation through the means of "pseudo-science". Mr. Zeamer strongly believes that the accurate and truthful presentation of the facts is paramount.

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## Education

Texas A&M University, 1998-1999

Lonestar Community College, 2000-2011

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## Licenses & Certifications

- Certified Fire Investigator, IAAI
- Vehicle Fire Credential Endorsement, IAAI
- Certified FIT, IAAI
- Certified Fire & Explosion Investigator, NAFI
- Certified Accident Reconstruction Expert, ACTAR # 2690
- Advanced Accident Reconstruction, TEEX
- Licensed Private Investigator, PI # A05924
- Certified First Aid/CPR/AED, American Red Cross
- Certified Forklift Operator

## Contact Information

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## ESi Houston

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Conroe, TX 77385

## Areas of Specialization

- Fires and Explosions
- Origin & Cause
- Powertrain Failure Analysis
- Industrial and Commercial Machinery Fires
- Collision and Non-Collision Related Vehicle Fires
- Product Fires
- Vehicle Component Failure Mode Analysis
- Collision Avoidance and Timing Sequence
- Momentum Based Collision Analysis
- Forensic Evaluation of Failed Components
- AutoCad Diagramming and Modeling

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## Languages

- English

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## Positions Held

### Engineering Systems Inc., Conroe, Texas

- Senior Consultant, 2026 – Present
- Staff Consultant, 2022 – 2026
- Senior Technologist, 2016 – 2022

### Auto Fire and Safety Consultants, Conroe, Texas

- Senior Fire Investigator and Accident Reconstruction Expert, 2004 – 2015

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## Continuing Education

- **IAAI International Training Conference (ITC)** – Atlantic City, NJ, April 6-11, 2025.
- **IAAI International Training Conference (ITC)** – Jacksonville, FL, April 10-15, 2022.
- **IAAI Marine Fire Investigation** – Beaufort, SC, March 8-11, 2022.
- **IAAI Motor Vehicle Fire Investigation** – Livingston, TX, February 8-10, 2022.
- **IAAI Fire Conference** – Frisco, Texas, May 20-25, 2018.
- **ARC-CSI Crash Conference Crash Training** – Las Vegas, NV, September 18-21, 2017.
- **ARC-CSI Crash Conference Crash Training** – Las Vegas, NV, May 23-26, 2016.
- **ARC-CSI Crash Conference Crash Training** – Las Vegas, NV, June 2-5, 2014.
- **Vehicle Fire, Arson & Explosion Investigation Science & Technology Seminar (Total Burns – Testing)** – NAFI, Fire and Safety Engineering Technology, Eastern Kentucky University, September 30-October 3, 2013.
- **Inner Circle of Investigators, 2011 Annual Conference, Investigative Professional Development Conference** – Conroe, TX, October 21-22, 2011.
- **National Vehicle Fire, Arson and Explosion Investigation Science & Technology Seminar** – Lexington, KY, September 12-16, 2011.
- **Collision Reconstruction, Texas Engineering Extension Service** – Texas A&M University System, June 6-16, 2011.
- **ASME International Mechanical Engineering Congress & Exposition** – Lake Buena Vista, FL, November 13-19, 2009.
- **ACFE National Conference** – Las Vegas, NV, October 14-16, 2009.

- **Vehicle Fire, Arson & Explosion Investigation Science & Technology Seminar (Total Burns – Testing)** – NAFI, Fire and Safety Engineering Technology, Eastern Kentucky University, September 19-24, 2009.
- **SAE World Congress, SAE Motor Vehicle Fire Investigation Task Force** – Detroit, MI, April 20-22, 2009.
- **NFPA 556 Committee Meeting and Rule Making** – San Antonio, TX, February 5-6, 2009.
- **Fire and Materials 11<sup>th</sup> International Conference and Exhibition** – Interscience Communications Limited, San Francisco, CA, January 26-28, 2009.
- **Trucking Litigation and D.O.T. Regulations** – Houston, TX, November 13, 2008.
- **Texas Association of Accident Reconstructionists, Rotational Mechanics Developed from Newton's Laws and Point Mass Mechanics, Annual Meeting** – Houston, TX, November 13-15, 2008
- **NFPA Technical Committee Board Meeting regarding NFPA 921** – Orlando, FL, October 8-10, 2008.
- **Inner Circle of Investigators, 2008 Annual Conference, Investigative Professional Development Conference** – Jackson Hole, WY, August 15-16, 2008.
- **ARC-CSI Crash Conference, Crash Testing, New Vehicle Technologies, Reconstruction Techniques, Momentum and Energy, Airborne Analysis and Rotational Mechanics, Pedestrian Crash Analysis, Reconstruction of PIT crashes, Rollovers** – Las Vegas, NV, June 2-4, 2008.
- **NFPA World Safety Conference & Exposition, Executive Board Member FSTE, Campus Fire Safety, Air Force Application of Arc Flash Protection, Pitfalls, Perils and Reasoning, Fallacies of Determining Fire Cause in the Absence of Proof** – Las Vegas, NV, June 205, 2008.
- **SAE World Congress, SAE ABA Fire Safety Committee, SAE Motor Vehicle Fire Investigation Task Force, and AIRP Committee Meeting** – Detroit, MI, April 13-17, 2008.
- **ARC-CSI CDR User's Conference** – Houston, TX, January 28-30, 2008.
- **SAE Highway Vehicle Event Data Recorder Symposium** – NTSB Training Center, Ashburn, VA, September 5-6, 2007.
- **National Fire, Arson & Explosion Investigation Training Program** – NAFI and NFPA, Sarasota, FL, August 6-8, 2007.
- **Background Investigations, Digital/Computer Investigations, TALI Super Conference** – Las Colinas, TX, July 26-28, 2007.
- **People Safe in Rollovers Foundation, Emergency World Summit** – Washington, D.C., July 18-20, 2007.
- **ARC-CSI Crash Conference** – Las Vegas, NV, June 4-7, 2007.
- **Technical Committee on Hazard and Risk of Contents & Furnishings** – NFPA, May 1-2, 2007.

- **Inner Circle of Investigators, Annual Conference** – The Warren Group, Forensic Engineers & Consultants, Fires Explosions and Electricity, Irmo, SC, April 20-21, 2007.
- **SAE World Congress, SAE ABA Fire Committee, SAE Motor Vehicle Fire Investigation Task Force, and AIRP Committee Meeting** – Detroit, MI, April 16-19, 2007.
- **Fire and Materials, Interscience Communications Limited, Fire School** – San Francisco, CA, January 29-31, 2007.
- **Central Texas Fire Investigators Association’s Annual Meeting & Conference, Electrical Fires 102 Training Program** – Austin, TX, December 12-13, 2006.
- **TAARS F3T2 Conference, Factors, Formula, Forensic and Technology Training** – Houston, TX, September 17-21, 2006.
- **ISFI International Symposium on Fire Investigation Science and Technology, Fire Technology Involving Vehicles & Structures** – Cincinnati, OH, June 26-29, 2006.
- **ARC-CSI Crash Conference, Crash Testing – Rollover, Motorcycle and Bus** – Las Vegas, NV, June 5-8, 2006.
- **SAE World Congress, SAE AIRP Committee Meeting, SAE ABA Fire Safety Committee, Hydrogen Vehicle Safety (Parts 1 & 2), Fire Statistics and Analysis (Parts 1 & 2), Material Flammability and Fire Experiments (Parts 1 & 2)** – Detroit, MI, April 3-7, 2006.
- **IAAI, Specialized Training in Vehicle Investigation, Death and Injury** – March 20-31, 2006.
- **TAARS, Commercial Vehicle permits, Calculating Legal CMV Weights, Overview of Research into Common Factors that Influence Driver Response, CMV ABS and Disk Air Brake Systems** – Houston, TX, February 16-18, 2006.
- **Live Burn Testing of Five (5) Ford Vehicles Related to Cruise Control Deactivation Switches conducted by Nationwide Insurance** – Houston, TX, December 5, 2005.
- **Inner Circle of Investigators, Annual Conference, Investigative Professional Development Conference** – Williamsburg, VA, October 14-15, 2005.
- **Vehicle Fire, Arson & Explosion Investigation (Total Burns – Testing), Science & Technology Seminar** – NAFI, Fire and Safety Engineering Technology, Eastern Kentucky University, September 26-29, 2005.
- **NFPA 921 – Task Force Committee Meetings Relative Changes to NFPA 921** – Minneapolis, MN, September 14-16, 2005.
- **NAFI – National Seminar in Fire Analysis Litigation** – Sarasota, FL, August 11-12, 2005.
- **NAFI – National Fire, Arson & Explosion Investigation Training Program, Computer Fire Modeling** – Sarasota, FL, August 8-10, 2005.
- **SAE World Congress Fire Safety, Accident Reconstruction, Side Impact & Rollovers, Restraints Systems** – AIRP Standards Committee & VFI Advisory Group, Detroit, MI, April 12-15, 2005.

- **Fire and Materials 2005, Fire Hazard to Occupants of Road Vehicles and Cone Calorimeter Predictions of FMVSS 302 Performance, Interscience Communications Limited, Fire School** – San Francisco, CA, January 31-February 1, 2005.
- **Vehicle Fire, Arson & Explosion Investigation, (Vehicle Burns – Testing) Science & Technology Seminar** – NAFI, Fire and Safety Engineering Technology, Eastern Kentucky University, Sept. 27-30, 2004.
- **Highway Vehicle Event Data Record Symposium: State-of-the Art of Passenger Vehicle Accident Recorder Technology, EDR Device Research and Validation, and EDR End-User and Accident Reconstruction, National Transportation Safety Board** – George Washington University, Virginia Campus, June 3-4, 2004.
- **HVE Forum** – San Francisco, CA, 2004.

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### **Professional Affiliations/Honors**

Society of Automotive Engineers (SAE)

Accreditation Commission for Traffic Accident Reconstruction (ACTAR)

National Association of Fire Investigators (NAFI)

National Fire Protection Association (NFPA)

Texas Association of Accident Reconstruction Specialists (TAARS)

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## Presentations

“Vehicle Fires; Recalls and Pitfalls”, presented by Aaron Zeamer at the IEEE ISPC 2023, Dallas, TX, May 1-2, 2023.

“Black Box Data Crash Retrieval”, presented by Aaron Zeamer at the 2013 National Vehicle Fire, Arson and Explosion Investigation Science and Technology Seminar, 2013.

“Live Burn Presentations”, presented by Aaron Zeamer at the 2013 National Vehicle Fire, Arson and Explosion Investigation Science and Technology Seminar, 2013.

“Black Box Data Crash Retrieval” and “Sources of Information/Recalls/Service Bulletins”, presented by Cam Cope at the 2009 Vehicle Fire Arson & Explosion Investigation Science & Technology Seminar, NAFI and Eastern Kentucky University, Lexington, KY, Sept. 24, 2009.

“Vehicle Engine Compartment Fires”, presented by Cam Cope at the Fire and Materials 2009 at the 11th International Conference and Exhibition, Interscience Communication Limited, San Francisco, CA, Jan. 26-28, 2009.

“Battery Disconnect Devices”, presented by Cam Cope at the 2008 ASME International Mechanical Congress and Exposition, Boston, MA, Nov. 4, 2008.

“The Investigation of Vehicle Fire”, presented by Cam Cope at the TALI Super Conference, Las Colinas, TX, July 26-28, 2007.

“The Investigation of Electrical Fires in Vehicles”, presented by Cam Cope at the Fire Explosions and Electricity: Intensive Instruction, Irmo, SC, April 20-21, 2007.

“Heavy Truck Fires”, presented by Cam Cope at the Inner Circle of Investigators 2005 Annual Conference, Williamsburg, VA, Oct. 14-15, 2005.