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Curriculum Vitae

Brian A. Darr, P.E. IAAI-FIT(V), NAFI-CFEI 504.322.7220 · BDarr@Qforensics.com

BACKGROUND

Mr. Darr has extensive experience with tire failure analysis, fire investigation, vehicle accident reconstruction, and product failure investigation. He has over 25 years of experience with tires including failure analysis, tread design, development, manufacturing, quality investigation, race tire preparation, and testing of tires at numerous testing facilities. He worked in a tire manufacturing facility as a plant technical engineer where he investigated quality related issues, and in a Research & Development (R & D) center where he designed, developed, tested, and analyzed tires. Mr. Darr has visited numerous tire production plants such as Goodyear, Bridgestone, Michelin, and Continental tire. He has inherent knowledge of the PAX run-flat tire system and C3M manufacturing process. He also was responsible for verifying standards and regulations were met, related to tire product and tire pressure monitoring sensors. Mr. Darr has been qualified as a tire expert in State and Federal court. He has completed forensic tire failure analysis on many types of tires (passenger, light truck, radial medium truck, retreads, motorcycle, etc.) in which he referenced hundreds of publicly available tire related documents. He reviews forensic tire reports from outlying offices along with providing marketing support and giving seminars nationwide.

Mr. Darr has conducted numerous vehicle and residential fire origin and cause investigations with various findings including fires that were intentionally set, accidental, and electrical in nature. He has also conducted fire suppression system investigations. Mr. Darr holds multiple fire certifications and designations with the International Association of Arson Investigators and the National Association of Fire Investigators.

In addition to conducting tire failure analysis and fire investigation, Mr. Darr's forensic experience includes vehicle accident reconstruction for passenger and commercial vehicles, motorcycles, vehicle component failure analysis and insurance fraud/consistency evaluations. He also conducts crash data retrieval (CDR) downloads for passenger vehicles and engine control module (ECM) downloads for commercial vehicles. Mr. Darr evaluates traffic signal timing relating to intersection collisions. He also provides services in product and material failure analysis, cause analysis of plumbing failures, mechanical equipment and machinery failures, vehicle and residential fire investigations, fire suppression system investigations, lightning strike investigations, nondestructive examinations and testing, product design and assessment of conformance to government, corporate, industry, safety, and international standards.

Mr. Darr is a graduate of The Ohio State University with a Bachelor of Science Degree in Mechanical Engineering.

AREAS OF EXPERTISE

- Tire Failure Analysis
- Tire Tread Design and Imprint Analysis
- Vehicle Fire Investigation
- Residential Fire Investigation
- Fire Suppression System Investigation

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- Vehicle Accidents
- Motorcycle Accidents
- Vehicle Component Failure Analysis
- Insurance Fraud/Consistency Evaluations
- Crash Data retrieval (CDR)
- Tractor Trailer Electronic Control Module (ECM) Analysis
- Product Failure Analysis
- Lightning Strike Investigation
- Product Design & Assessment

PROFESSIONAL LICENSES & CERTIFICATIONS

- Certified Fire & Explosives Investigator, NAFI-CFEI #27140-115337
- Certified Fire Investigation Technician for Motor Vehicle & Marine, IAAI FIT(V) #1310590
- Certified Fire Investigation Technician, IAAI FIT
- FAA Remote Pilot Certification, #1664171
- Licensed Professional Engineer, Louisiana, #36957
- Licensed Professional Engineer, Alabama, #32576
- Licensed Professional Engineer, Arizona, #79649
- Licensed Professional Engineer, Arkansas, #16538
- Licensed Professional Engineer, California, #42068
- Licensed Professional Engineer, Florida, #70257
- Licensed Professional Engineer, Georgia, #040399
- Licensed Professional Engineer, Indiana, #12300777
- Licensed Professional Engineer, Kentucky, #31716
- Licensed Professional Engineer, Mississippi, #25570
- Licensed Professional Engineer, New Mexico, #29212
- Licensed Professional Engineer, North Carolina, #59220
- Licensed Professional Engineer, Ohio, #68140
- Licensed Professional Engineer, Oklahoma, #34500
- Licensed Professional Engineer, Tennessee, #120795
- Licensed Professional Engineer, Texas, #121127

EDUCATION

• Bachelor of Science in Mechanical Engineering, The Ohio State University, Columbus, OH, 1996

PROFESSIONAL EXPERIENCE

- 2023 Present | Quality Forensic Engineering, LLC | Senior Forensic Engineer, Covington, LA
- 2014 2023 | U.S. Forensics, LLC | Senior Forensic Engineer, Metairie, LA
- 2009 2014 | Rimkus Consulting Group, Inc. | Senior Consultant 2011 to 2014, Metairie, LA

| Senior Consultant – 2009 to 2011, Ft. Lauderdale, FL

2011 – 2011 | Darr Consulting, LLC | Principal Consultant, Tucson, AZ

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2011 – 2011 | Carlson Engineering, Inc. | Principal Consultant, Tucson, AZ

2003 – 2009 | Honda R&D Americas, Inc. | Senior Tire Project Leader, Chassis Design, Raymond, OH

1997 – 2003 | Cooper Tire & Rubber Co. | SUV/LT Tire Development Engineer, Tech Center – 2001 to 2003

| Plant Technical Engineer, Findlay Plant – 2000 to 2001, Findlay, OH

| Pass Tire Development Engineer, Tech Center – 1997 to 2000

1996 – 1997 | Lockheed Martin Federal Systems | Scientist, Advanced Development Unit, Manassas, VA

1995 – 1996 | Delphi Chassis Systems, GM | Product Engineering Intern, Sandusky, OH

NOTABLE PROJECTS

Forensic Engineering

Mr. Darr has been involved in many forensic engineering projects, including the following:

- Thousands of tire failure investigations
- Multiple investigations involving identifying the tire tread design
- Numerous vehicle and residential fire origin and cause investigations
- Numerous vehicle collision reconstructions
- Numerous vehicle damage consistency evaluations
- Numerous product failure analysis and product design & assessment investigations
- Automobile electronic data recorder downloads
- Tractor-trailer engine control module and electronic data downloads
- Plumbing failure investigations
- Lightning strike investigations

Tire Development

- Project leader for all North American developed vehicles (over 2 dozen) while employed at Honda R&D Americas
- Tire Project leader for the North American Car of Year, 2006 Honda Civic
- Tire Project leader for the North American Truck and Utility Vehicle of Year, 2006 Honda Ridgeline
- Project Leader for First Sport Truck tire line launched at Cooper Tire, 2002

NOTABLE TIRE RELATED VISITS, INSPECTIONS, EMPLOYMENT

Mr. Darr has visited and/or been employed at the following tire related manufacturing plants, original equipment manufacturer (OEM) automotive plants, tire research and development centers, tire indoor test facilities and tire and vehicle proving grounds:

Tire Manufacturing Plant Quality Assurance Inspections

Tire Manufacturer	Location	<u>Timeframe</u>
Bridgestone/Firestone	Wilson, NC	Sep-03
Continental AG	Korbach, Germany Mount Vernon, IL	Sep-04 Mar-08
Goodyear Tire & Rubber	Medicine Hat, Canada	Oct-04

	Lawton, OK	Jun-06	
Kenda Tire	Kunshan, China	Oct-07	
	Greenville, SC (US1)	2005-2008 Multiple visits	
Michelin Americas	Greenville, SC (PAX1)	Feb-05	
	Lexington, SC (US5)	Jan-07	
Research and Development (R&D) and Indoor Testing Center Inspections			
Bridgestone/Firestone	Akron, OH	Dec-05	
Goodyear Tire & Rubber	Akron, OH	12/1/2005, 2006	
Michelin Americas Research Center (MARC)	Greenville, SC	2005-2008 Multiple visits	
Outdoor Proving Grounds Facility Testing	g Inspections		
Ft. Stocken Proving Grounds	Ft. Stocken, TX	1998-2005 Multiple visits	
West Yellowstone airport cold weather	West Yellowstone, MT	2005	
Uvalde Proving Grounds	Uvalde, TX	1998-1999 Multiple visits	
Tire and Vehicle Test Center	Pearsall, TX	1999-2003 Multiple visits	
Honda Proving Center (HPC)	Kern County, CA	2007	
International Falls cold weather	International Falls, MN	2004-2009 Multiple visits	
Laurens Proving Grounds (LPG)	Laurens, SC	2005-2008 Multiple visits	
Smither's Scientific cold weather	Sault Saint Marie, MI	2000	
Transportation Research Center (TRC)	East Liberty, OH	2003-2009 Multiple visits	
Tire Cord R&D and Manufacturing Plant Inspection			
Allied Signal	Virginia	1999-2000 Multiple visits	
R&D and Indoor Testing Center Employment			
Cooper Tire Tech Center	Findlay, OH	1997 - 2000 & 2001 - 2003	
Honda R&D Americas (HRA)	Raymond, OH	2003 - 2009	
Manufacturing Plant Employment			
	Findlay, OH	2000 - 2001	
Cooper Tire and Rubber Co.	Tupelo, MS	2001	
	Texarkana, AR	2002 - 2003 Multiple	
Honda Americas Manufacturing (HAM)	Marysville, OH	2003 - 2009 Multiple	
DEESSIONAL ASSOCIATIONS			

PROFESSIONAL ASSOCIATIONS

- American Society of Mechanical Engineers (ASME)
- Society of Automotive Engineers (SAE)
- International Association of Arson Investigators (IAAI)

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- National Association of Fire Investigators (NAFI)
- National Safety Council (NSC)

HONORS AND AWARDS

- Featured multiple times on Crime Stories with Nancy Grace Alex Murdaugh trial February 2023
- Featured on ABC News 7 Chicago regarding tire aging February 2023

COURSEWORK/CONTINUING EDUCATION

- May 2025 | "Symposium on Traffic Safety," Institute of Police Technology and Management (IPTM), Orlando, Florida
- May 2025 | "Accident Reconstruction and Digital Data," Erich L. Breedlove, Quality Forensic Engineering, LLC
- April 2025 | "Accident Reconstruction 101," Michael Hill, Ph.D., P.E., Quality Forensic Engineering, LLC
- April 2025 | "Forensic Evaluation of Slip, Trip, and Fall Events," Traci K. Campbell, P.E., CFSE, CXLT, Quality Forensic Engineering, LLC
- 2024 | "The Fascinating World of Biomechanical Engineering," Michael Hill, Ph.D., P.E., Quality Forensic Engineering, LLC
- 2024 | "Motor Vehicle Accident Biomechanics and the Daubert Standard," by Ian Zeller, Ph.D., Quality Forensic Engineering, LLC
- 2024 | Vehicle Response software training, Long Beach, CA
- 2024 | International Symposium on Fire Investigation (ISFI), Orlando, FL
- 2023 | Recon 3D software application training via Zoom
- 2022 | Certified Fire & Explosives Investigation Training, National Association of Fire Investigators, New Orleans, LA
- 2021 | Marine Fire Investigation Training, International Association of Arson Investigators, South Carolina
- 2019 | Remote Pilot Airmen Certification Part 107, Federal Aviation Administration, Hammond, LA
- 2019 | Certified Fire Investigation Technician for Motor Vehicles, International Association of Arson Investigators FIT(V)
- 2018 | HVAC Training with EPA Universal Certification, All American Technician Academy, Marietta, GA
- 2017 | Heavy Vehicle Event Data Recorder Training
- 2016 | Certified Fire Investigation Technician, International Association of Arson Investigators FIT
- 2015 | Fundamentals of Fire investigation, International Association of Arson Investigators
- 2014 | Advanced Crash Reconstruction Utilizing Human Factors, Northwestern University

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- 2012 | HVE Reconstruction (EDCRASH), Engineering Dynamics Corp
- 2011 | ECM Crash Data Retrieval Specialist Training
- 2011 | CSI Crash Data Retrieval Specialist Training-Level II
- 2010 | CSI Crash Data Retrieval Data Technician and Analyst courses
- 2010 | Crash Reconstruction at Traffic Signal Intersections, Forensic Traffic Specialist
- 2010 | Northwestern Online Accident Investigation 1 & 2, Northwestern University
- 2010 | Pedestrian and Bicycle Accident Investigation, Institute of Police Technology and Management

PUBLICATIONS

- Darr, Brian and Gary L. Bell. "How to Get the Most Traction on Your Tire Failure Case." NASP Subrogator Magazine. Spring 2016
- Darr, Brian and Michael DeHarde. "U.S. Forensic: Water Heater Connector Failures: An Engineering Assessment of Cause" NASP Subrogator Magazine. November 2016

PRESENTATIONS

- February 2025 | "Tire Basics & Tire Failure Evaluations CLE Presentation," Palm Beach County Justice Association
- September 2024 | "Unveiling the Mystery: A Deep Dive into Expert Tire Failure Analysis CLE Presentation," North Carolina Association of Defense Attorneys
- July 2024 | "Tire Basics & Tire Failure Evaluation," Louisiana Association of Defense Counsel
- February 2024 | "Tire Basics and Tire Failure Analysis," Alabama Defense Lawyers Association
- May 2022 | "Webinar Tire Presentation," National Association of Subrogation Professionals
- September 2017 | "International Association of Special Investigation Units Presentation"
- April 2016 | "Accident Reconstruction Presentation," Allstate
- November 2015 | "Tire Presentation," National Association of Subrogation Professionals Conference
- July 2015 | "Tire Presentation," Allstate
- June 2015 | "Tire Presentation," Louisiana Claims Association Conference

February 2015 | "Tire Presentation," Southwest Louisiana Claims Association

March 2013 | "Accident Consistency Presentation," State Farm

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PATENTS

2002 Patent submission for nylon cap ply in load range E light truck tires.

1996 Patent submission for wood chipper mechanism.

June 2, 2025