Chris Medwell

Senior Managing Accident Reconstructionist

Department
Accident Reconstruction & Forensic Animation

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Locations
Mobile, AL
Panama City, FL
Pensacola, FL

Biography

Mr. Medwell joined YA Engineering Services through the acquisition of Bloomberg Consulting. He is a Senior Forensic Engineer who has been involved in all aspects of accident reconstruction and collision analysis since 1990. He has investigated and analyzed thousands of crashes involving cars, light and heavy trucks, tractor-trailers, motorcycles, bicycles, and pedestrians. Mr. Medwell has extensive experience downloading and analyzing digital data from heavy truck and automobile engines, airbag and braking system electronics control modules, onboard video monitoring systems, GPS-based telematics, etc. In addition, Mr. Medwell holds ASE certifications in brakes, suspension, and steering systems for cars and trucks. He has extensive experience documenting the condition of braking and steering systems on tractor-trailers and other heavy trucks. He is a certified FAA remote drone pilot and routinely uses leading-edge technology to collect and analyze the information surrounding each crash. He is skilled at communicating his findings in written report form and testifying in depositions and courtrooms.

Mr. Medwell earned his Bachelor of Applied Science in Mechanical Engineering from Canada's University of Waterloo in 1982. As an engineering student, he participated in the school's Shell Fuelathon team, which competed against student teams from across Canada to design and build highly fuel-efficient motorized vehicles.

Credentials

- Professional Engineer
- FAA Certified Drone Pilot
- CDR Technician and Data Analyst
- ASE Mechanic in Suspension, Steering and Brakes

Professional Experience

- 2024 - Current | Senior Managing Accident Reconstructionist | YA Engineering Services
- 2006 - 2024 | Senior Engineer | Bloomberg Consulting
- 2004 - 2006 | Forensic Engineer | HRCAY Consulting Engineers
- 1989 - 2003 | Investigative Engineer | Becker Transportation Safety (BTS) Consulting Engineers
- 1982 - 1988 | Service Engineer, Zone Service Manager | Ford Motor Company of Canada

Area of Practice

- Accident Reconstruction
- Litigation Support
- Heavy Trucking
- Motorcycle Accident Reconstruction
- Traffic Engineering

Publications and Presentations

- 2022 - "Verifying EDR Data From a Ram ProMaster 1500 Van Collision", Collision Magazine, Volume 16: Issue 1, 2022
- 2022 - "Case Analysis Solution: Discovering and Explaining a CDR Data Anomaly", Collision Magazine, Volume 16: Issue 1, 2022
- 2022 - "Development of a Test Procedure for Setting Non-Deployment (ND) Events", Collision Magazine, Volume 16: Issue 1, 2022
- 2012 - "Unlocking the Black Box", American Bar Association, Committee News (Fall 2012)
- 1997 - "Motorcycle Slide to Stop Testing", SAE Paper #970963, 1997 SAE International Conference

Education

- University of Waterloo - Bachelor of Applied Science - Mechanical Engineering - Waterloo - Canada

Training Courses

- Mack / Volvo Forensic Imaging Training - DELTA |v| - Charlotte, NC - September - 2021
- Advanced Photogrammetry for Accident Reconstruction - Lightpoint Scientific LLC - Orlando FL - November - 2019
- Virtual Crash Simulation Software - vCRASH Academy & Forensic Training Group - Sandy Springs, GA - October - 2019
- EDR in Traffic Crash Reconstruction: Update & Advanced Analysis Techniques - Ruth Consulting - April - 2018
- Pedestrian Collision Reconstruction - Toronto Police College - Toronto, ON - October - 2016
- Heavy Vehicle ECM Data Use in Crash Reconstruction - Institute of Police Technology and Management - Jacksonville, FL - May - 2012
- REC-TEC Truck 2011 Advanced Commercial Vehicle Program - Michigan State University College of Engineering - New Orleans, LA - March - 2011
- Crash Data Retrieval (CDR) Data Analyst Certification (Vehicle "Black Box" Systems) - Collision Safety Institute - New Orleans, LA - August - 2009
- Cummins INSITE 6 Qualification - Cummins Mid-South L.L.C. - Morgan City, LA - June - 2007
- Human Factors for Traffic Accident Reconstruction - Accident Dynamics Research Center - University of Massachusetts - June - 2007
- Caterpillar Engine Control Modules, Data Extraction - Thompson Power Systems - Birmingham, AL - August - 2006
- Crash Data Retrieval (CDR) Data Analyst Certification - Collision Safety Institute - Clinton Township, MI - March - 2006
- DDEC Reports/Data Extrication - Detroit Diesel Training Center - Redford, Michigan - December - 2004
- Crash Data Retrieval (CDR) Operator's Certification Course - Collision Safety Institute - Toronto, Ontario - June - 2002
- Braking Performance of Heavy Commercial Vehicles - Richard Radlinski, at International Truck Assembly Plant - Chatham, Ontario - June - 2001
- Human Factors in Traffic Collisions - Canadian Association of Technical Accident Investigators and Reconstructionists (CATAIR) - Mississauga, Ontario - October - 1994
- Air Brake Endorsement - St. Clair College - Windsor, Ontario - May - 1994
- BH2VK Crash Testing Project - Mobility Systems Inc. - San Bernardino, California - August - 1992

Affiliations

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

Licenses

- 70343 - Florida - Professional Engineer
- 29499-E - Alabama - Professional Engineer
- 19668 - Mississippi - Professional Engineer
- 90259102 - Ontario, Canada - Professional Engineer