

Curriculum Vitae Kevin Marajh, P.E., ACTAR, CXLT, CFEI CVFI, DFE

Mechanical Engineer



AWARDS

Award for Technical and Academic Excellence from BMW
EPA Clean Air Award

EDUCATION

Bachelor of Science, Mechanical Engineering, Florida Atlantic University

REGISTRATIONS AND CERTIFICATIONS

Professional Engineer in Florida and Georgia
Certified Fire and Explosion Investigator
Accredited Traffic Accident Reconstructionist (ACTAR)
Certified XL Tribometrist
Diplomate of Forensic Engineering-NAFE
Certified Vehicle Fire Investigator

AFFILIATIONS

Member, American Society of Mechanical Engineers (ASME)
Member, National Association of Fire Investigators (NAFI)
Member, Society of Automotive Engineers (SAE)
Member, National Academy of Forensic Engineers (NAFE)
Voting Member, ASTM International

PROFESSIONAL SUMMARY

As a professional engineer, Mr. Marajh applies the principles of design, analysis, testing, and safety to forensic evaluations involving accident investigation and reconstruction. His professional background includes positions in the automotive, heavy equipment and consulting industries. He has hands-on operational and troubleshooting experience with the full line of heavy construction equipment. Mr. Marajh has been involved in product defect allegation cases involving a wide range of products. He has received specialized training in traffic accident reconstruction and traffic collision investigation. His training also includes preserving and analyzing data stored in vehicles such as airbag modules and engine control modules from both passenger and commercial vehicles. He conducts vehicle accident, fire, premises liability and mechanical component investigations for clients throughout the United States and the Caribbean. Kevin holds a CXLT designation in the field of Tribometry as it relates to Walkway Safety and the measurement of surface friction. From professional experience in conducting property condition assessments, he has knowledge of building codes, safety codes, and industry standards that relate to the construction and maintenance of various properties and structures. This includes photometric and acoustical standards and measurements. He has been retained on over a thousand incidents involving commercial vehicles, passenger vehicles, agricultural equipment, motorcycles, bicycles, personal mobility devices, ladders, consumer products, slip and falls, structure, and vehicle fires, and he is Maintenance of Traffic (MOT) certified.

RELEVANT EXPERIENCE

Provides forensic engineering services related to vehicle accident reconstruction (cars, trucks, commercial vehicles, bicycles, and multiple-vehicle collisions)
Provides on-site vehicular accident documentation and reconstruction
Performs mechanical equipment assessments in industrial/commercial facilities
Recommends policy and procedure for OSHA compliant workspace
Conducts failure analysis on fastener systems and consumer products
Performs analysis for vehicular and structural fire cause and origin
Conducts industrial/commercial site assessments for useful life estimates and rehabilitation costs
Experience with ADA and applicable building codes, slip/trip and falls and coefficient of friction testing help identify non-compliant surfaces and potential liability
Performed routine and repair maintenance on the full line of Caterpillar Heavy Equipment, performed quality inspections, and wrote technical reports addressing modes of failure
Evaluate ladder and mechanical hoist system failures
Develop Photometric and acoustical mapping surveys
Develop various best practice guidelines for retail and general industry locations
Conducts fire cause and origin investigations involving structures and vehicles

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PROFESSIONAL EXPERIENCE

Forensic Project Manager, Kimley-Horn and Associates, Inc., West Palm Beach, FL, 2012 – Present

Vice President, Forensic Solutions, LLC, Palm Beach Gardens, FL, 2010 – 2012

Forensic Mechanical Engineer, KimleyHorn and Associates, Inc., West Palm Beach, FL, 2005 – 2010

Warranty Claims Technician, Kelly Tractor Company, Miami, FL, 2003

Quality Control Engineer, Autohaus Mercedes Benz, Pompano Beach, FL, 1997 – 1999

PROFESSIONAL DEVELOPMENT

SAE Tire Forensic Analysis

SAE Applying EDR Data to Accident Reconstruction

Crash Data Retrieval (CDR) Technician Level 1 and 2

Institute of Police Technology and Management (IPTM) Motorcycle Crash Investigation

CDR Summit, Houston, TX

MEGA Trucking Conference Presenter

International Fire, Arson, and Explosion Investigation, National Association of Fire Investigators

IPTM Commercial Vehicle Crash Investigation

Vehicle Accident and Reconstruction Methods, Society of Automotive Engineers

IPTM At-Scene Traffic Crash/Traffic Homicide Investigation Certificate

CXLT Training and Certification

NAFI Certified Vehicle Fire Training

HVEDR Webinar Presenter to TIDA (2021)

World Reconstruction Exposition (WREX), Multiple Providers, Orlando, FL (2016)

- » Crash Testing, Infotainment Data Collection and Survivability
- » Vehicle Velocity Extraction from Witness Video
- » Motorcycle and Speed Estimation Methods
- » Air Disc Brakes
- » Highway Loss Data Institute (HLDI)
- » EDR Data Survivability
- » Driver Response Depends Upon Information Content
- » Motorcycle Collision Reconstruction
- » Crash Data Retrieval Update Tesla EDR Case Study
- » Integrating Aerial and Terrestrial Scan Data
- » Crash Reconstruction and the highly Automated Vehicle
- » Video Analysis in Crash Reconstruction
- » EDR Data and Video Images-Synchronization and Analysis
- » Inline Collisions solved using Simultaneous Equations
- » Call Phone Call and Tower Mapping in Crash Investigations
- » Digital Forensics and Heavy Vehicle Post Crash Inspections
- » EDR Anomalies and Limitations Vehicle System Forensics in Crash Reconstruction
- » Bosch EDR Update

American Ladder Institute: Single, Extension, Mobile, Articulated and Step Ladder Safety Training

OSHA General Industry 30 HR Certificate

Mobile Elevating Work Platform (MEWP) and Scissor Lift Certification

Industrial Powered Truck (Forklift) certification

Heavy Vehicle Event Data Recorder (HVEDR) Use in Traffic Crash Investigation Analyst Training (2021)

Business Industrial Furniture Manufacturers Association (BIFMA), Why Standards Matter (2021)