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Curriculum Vitae

Ziad B. Hatab, E.I.T., ACTAR

Accident Reconstruction Expert

OVERVIEW

Mr. Hatab is a proficient accident reconstructionist with a profound commitment to the field. He holds a Bachelor of Science in Mechanical Engineering (BSME) from Drexel University and is a certified FAA Part 107 sUAS Pilot.

Mr. Hatab combines his educational foundation with practical expertise and has demonstrated his commitment to continuous learning through his completion of technical training courses for basic mechanics of automotives, engine management, automotive electric systems, automotive AC systems, basic brake systems, and advanced brake systems (ABS, TCS, EBD, ESP, SBC).

Mr. Hatab is also equipped with a diverse skill set encompassing microcontrollers, programming, 3D modeling and simulation.

AREAS OF EXPERTISE

- Accident Reconstruction
- Computer Reconstruction and Simulations
- Computer Aided Design and Photogrammetry Analysis
- Vehicle and Site Inspection
- EDR Data Imaging and Analysis

EDUCATION

June 2023 **Drexel University** – Philadelphia, PA
Bachelors of Science, Mechanical Engineering (BSME) magna cum laude

ACCREDITATIONS AND CERTIFICATIONS

2025 **ACTAR** – The Accreditation Commission for Traffic Accident Reconstruction
ACTAR Number 4985

2024 **Engineer-in-Training** – State of California
EIT – Certificate # 181236

2022 **FAA Part 107 sUAS Pilot** - FAA
Remote Pilot – Certificate # 4669430
Recertified in: 2024

EMPLOYMENT HISTORY

Sept. 2026 - Present **Lumina Forensics, LLC** – Encinitas, CA
Accident Reconstructionist – Engineer

Hatab 20260907

Accident Reconstruction Expert specializing in reconstructions and analysis of low- and high-speed accidents involving automobiles, tractor-trailers, trucks, motorcoaches, motorcycles, heavy equipment, pedestrians, and other equipment and vehicles in all modes of collision, including small overlap impacts, rollovers and underrides/overrides. Analyze vehicle dynamics and performance, vehicle kinematics, occupant kinematics, advanced vehicle technologies, and vehicle systems.

Aug. 2023 - **JS Forensic Consulting, LLC** – Encinitas, CA
Sept. 2026 *Accident Reconstructionist – Engineer*

Accident Reconstruction Expert specializing in reconstructions and analysis of low- and high-speed accidents involving automobiles, tractor-trailers, trucks, motorcoaches, motorcycles, heavy equipment, pedestrians, and other equipment and vehicles in all modes of collision, including small overlap impacts, rollovers and underrides/overrides. Analyze vehicle dynamics and performance, vehicle kinematics, occupant kinematics, advanced vehicle technologies, and vehicle systems.

Mar. 2022 - **ARCCA** – Doylestown, PA
Sept. 2022 *Accident Reconstructionist – Co-op*

Accident Reconstructionist specializing in reconstructions and analysis of low- and high-speed accidents involving automobiles, tractor-trailers, trucks, motorcycles, pedestrians, and other equipment and vehicles in all modes of collision, including small overlap impacts, rollovers and underrides/overrides. Analyze vehicle dynamics and performance, vehicle kinematics, occupant kinematics, advanced vehicle technologies, and vehicle systems.

Apr. 2021 - **West African Vehicle Academy (WAVA)** – Accra, Ghana
Jul. 2021 *Technical Trainer – Co-op*

Technical trainer at a joint venture between Bosch Gh, Rana Motors & Metal Works (Kia Motors), and GLZ. Assist in training university professors and professional engineers in a variety of automotive courses, ranging from brake systems and ignition systems to petrol and diesel engines. Diagnose and repair faults on vehicles using workshop tools and Bosch equipment, such as diagnostic machines.

PROFESSIONAL MEMBERSHIPS

- Society of Automotive Engineers (SAE)
- Southwestern Associate of Technical Accident Investigators, Inc. (SATAI)
- Pi Tau Sigma Honors Society
- National Society of Black Engineers (NSBE)

PUBLICATIONS

- Vega, H., Cornetto, A., Ngo, L., Hatab, Z., et al., "Speed Determination Using Audio Analysis of Dash Camera Video from Commercial Vehicle Tires Frequencies for Vehicle Accident Reconstruction," SAE Technical Paper 2026-01-0536

- Vega, H., Ngo, J., Hatab, Z., “Speed Determination Using Audio Analysis of Dash Camera Video from Passenger Vehicle Tires Frequencies for Vehicle Accident Reconstruction” SAE Technical Paper 2025-01-8682, 2025

CONTINUING EDUCATION

- Institute of Police Technology and Management, Bosch CDR Tool Technician Training. May 2025.
- Engineering Dynamics Company, HVE Forum, Savannah, Georgia. March 2025
- Society of Automotive Engineers, Advanced Applications of Heavy Vehicle EDR Data. June 2024.
- Society of Automotive Engineers, Accessing and Interpreting Heavy Vehicle Event Data Recorders. June 2024.
- Engineering Dynamics Company, HVE Forum, Berkley, California. March 2024
- Lightpoint, How to Model Crush Using Photographs. October 2023
- Kent E. Boots & Associates, Hyundai EDR Tool Operator/Technician. September 2023
- Kent E. Boots & Associates, Tesla EDR Tool Operator/Technician. September 2023
- West African Vehicle Academy, Diesel 1 Course. Technical trainer co-op; Accra, Ghana. April 2021
- West African Vehicle Academy, Electric 1 Course. Technical trainer co-op; Accra, Ghana. May 2021
- West African Vehicle Academy, Basic Brake Systems 1 Course. Technical trainer co-op; Accra, Ghana. May 2021
- West African Vehicle Academy, Advanced Braking Systems (ABS, TCS, EBD, ESP, SBC) Course. Technical trainer co-op; Accra, Ghana. May 2021
- West African Vehicle Academy, Basic Mechanic 1 Course. Technical trainer co-op; Accra, Ghana. June 2021
- West African Vehicle Academy, Engine Management Course. Technical trainer co-op; Accra, Ghana. June 2021
- West African Vehicle Academy, Automotive AC Systems Course. Technical trainer co-op; Accra, Ghana. July 2021