

W. Hunter Witt, MSBE, CXLT

Forensic Expert – Accident Reconstruction and Biomechanics

OFFICE: 702.395.6768
EMAIL: hunter.witt@aperturellc.com

EDUCATION

BSKin	Bachelor of Science in Kinesiology University of Nevada, Las Vegas, 2019
MSBE	Master of Science in Biomedical Engineering University of Nevada, Las Vegas, 2023

MEMBERSHIPS

Southwestern Association of Technical Accident Investigators (SATAI)

Society of Automotive Engineers (SAE)

American Society of Testing and Materials (ASTM), Committee F13 – Pedestrian/Walkway Safety and Footwear

PROFESSIONAL CERTIFICATIONS

CXLT	Certified XL Tribometrist, Excel Tribometers, LLC, 2022 – Certificate No. 2202878 Knowledgeable in wet & dry slip testing and the analysis of pedestrian slip/trip & fall incidents
	Bosch CDR and Direct to Module Download Certification Certified by Crash Data Group, 2022
	FAA Part 107 Certified UAS Remote Pilot

WORK EXPERIENCE

Aperture, LLC, 2021/Present
6351 Hinson St., Ste. R
Las Vegas, NV 89118

American Bio Engineers, LLC, 2019/2021

6351 Hinson St., Ste. R Las Vegas, NV 89118	2305 Historic Decatur Rd., Ste. 100 San Diego, CA 92106	7272 E Indian School Rd., Ste 540 Scottsdale, AZ 85251

Accident Reconstruction with areas of expertise in Vehicular Accidents, Vehicular Dynamics, Speed Analysis, Time/Motion Studies, Vehicle Maintenance, Slip/Trip and Fall Incidents, Biomechanics and Design Strength Analysis.

Types of cases reconstructed include: Auto v. Auto Collisions, Auto v. Heavy Truck/Trailer Collisions, Auto v. Truck Collisions, Auto v. Motorcycle Collisions, Auto v. Pedestrian Collisions, Vehicle Rollovers, Slip and fall incidents, and Trip and fall incidents.

LECTURES PRESENTED

Presented an informational lecture on the elements of accident reconstruction and biomechanics to the Morgan and Morgan Law Firm, Las Vegas, Nevada, March 2025.

NOT FOR EXPERT DESIGNATION

"Test data results and analysis of the official SATAI Crash Conference high speed collisions," presented at the Southwestern Association of Technical Accident Investigators (SATAI) Conference, Glendale, Arizona, March 2025.

Presented an informational lecture on the elements of accident reconstruction, occupant kinematics and biomechanics to Farmers Insurance, Phoenix, Arizona, June 2025

Presented a virtual continuing education course for St. Petersburg Bar Association on Forensic Biomechanics in Motor Vehicle Accidents, April 2026

Presented a continuing education course for Florida Liability Claims Conference on Forensic Biomechanics in Motor Vehicle Accidents, Orlando, Florda, June 2026

SPECIALIZED TRAINING/SEMINARS ATTENDED

How to Use the Bosch CDR Tool Online Course (Crash Data Group, 2022)
- DLC connection method for imaging EDR data
- Direct-to-Module (D2M) connection method for imaging EDR data

Injuries, Anatomy, Biomechanics & Federal Regulation presented by the *Society of Automotive Engineers (SAE)* (Virtual Event, 2023)
- Medical Records, Injury Types & Scaling
- Anatomy & Injury of the Head and Neck
- Anatomy & Injury of the Torso and Limbs
- Occupant Restraint Systems
- Anthropomorphic Test Devices (ATDs)
- Regulatory Update

Walking Working Surfaces Regulatory Review presented by the Department of *Business and Industry Division of Industrial Relations Safety Consultation and Training* Section (Las Vegas, NV 2024)
- Walking working surfaces regulations & standards
- Differences of horizontal & vertical surfaces
- Fall protection systems & falling object protection criteria & practices
- Regulations & standards for step bolts, manhole steps, stairways, dock boards & guard rail systems

Applying Automotive EDR Data to Traffic Crash Reconstruction presented by the *Society of Automotive Engineers (SAE)* (Washington DC, 2024)
- U.S. EDR Status
- The CDR Report
- Delta-V Analysis
- Pre-Crash Data Analysis

SATAI March 2025 presented by the *Southwestern Association of Technical Accident Investigators (SATAI)* (Glendale, AZ, 2025)
- Member of the "Crash Crew" for instrumented crash testing (See applicable research section)

Topics Presented
- Drones and Photogrammetry for Crash Reconstruction;
- Intro to Trailers and Trailer Dynamics;
- Mathematically Integrating Yaw Rate and Lateral Acceleration to Determine Lateral Displacement;
- Monte Carlo Analysis;
- Hyundai-Kia EDR Tool Update;
- Crash Test Data Review.

NOT FOR EXPERT DESIGNATION

Fundamentals of Vehicle Dynamics presented by the *Society of Automotive Engineers (SAE)* (Virtual Course, 2026)

- Acceleration
- Braking
- Road Loads
- Ride
- Cornering
- Suspensions
- Steering

RESEARCH

Sep 2020	Performed and participated in instrumented rear-end impacts between a Corolla and Camry with human volunteers in Las Vegas, NV.
Oct 2020	Performed and participated in instrumented lateral minor impacts between a Corolla and Camry with human volunteers in Las Vegas, NV.
Nov 2020	Performed and participated in instrumented head impact testing to an Anthropomorphic Test Device in Las Vegas, NV.
Feb 2021	Preformed and participated in instrumented head impact testing to an Anthropomorphic Test Device in Las Vegas, NV.
April 2024	Performed and participated in instrumented lateral “side-swipe” impacts between a Honda Pilot and Peterbilt tractor trailer in Las Vegas, NV.
March 2025	Performed and participated in a low speed rear-end impact between a bullet Ford Crown Victoria and a target utility trailer attached to a Honda Pilot, with two human occupants in the Ford and two human occupants as well as an instrumented 50th percentile male Hybrid III ATD in the Honda. Performed and participated in official SATAI conference crash tests utilizing instrumented vehicles, trailers, and ATDs, which included: a high-speed offset rear-end collision between a remote-driven Ford Crown Victoria and a stationary target utility trailer attached to a Dodge Durango, a high-speed angled broadside collision between the front of a remote-driven Kia Rio and the right side of a stationary target utility trailer attached to a Honda Pilot resulting in a rollover event for the Kia, and a high-speed broadside collision between a remote-driven Dodge Durango and a stationary target Polaris RZR UTV. Vehicle dynamics, vehicle damage, EDR data, and ATD/human motions/loading were documented and analyzed. All tests were performed in Glendale, AZ.
April 2025	Performed and participated in instrumented rear-end impacts and head drop testing utilizing Aperture LLC’s validated crash sled, an instrumented 50th percentile male Hybrid III ATD, instrumented head form, and volunteer human occupant in the Aperture Research and Testing facility in Long Beach, CA.

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