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Curriculum Vitae

Christopher Romo, MSME, ACTAR

Forensic Engineer & Accident Reconstructionist

OVERVIEW

Mr. Romo is a Mechanical Engineer, an ACTAR accredited accident reconstructionist, a certified FAA UAV pilot, and has been working as an accident reconstructionist since 2012. Mr. Romo holds a Master of Science degree in Mechanical Engineering with an emphasis in Biomechanics, and he holds dual Bachelor of Science degrees in Mechanical Engineering and Manufacturing Engineering from the California State University-Los Angeles. He has testified as an expert in Accident Reconstruction.

Mr. Romo has extensive experience conducting complex 3-dimensional accident reconstructions and simulations involving automobiles, pedestrians, bicycles, motorcycles, trains, and heavy vehicles. Mr. Romo performs reconstructions utilizing collision simulation software programs, state of the art video analysis techniques, acquisition and interpretation of data stored on passenger vehicle EDR systems, heavy vehicle EDR (HVEDR) systems, infotainment systems, and bicycle computers. He performs mechanical inspections for component failure issues in light-duty passenger vehicles, heavy trucks, buses, and safety systems such as restraints and helmets. Mr. Romo is qualified to download and analyze all types of Event Data Recorders and is certified to download and analyze Bosch Crash Data Retrieval (CDR) data and Berla infotainment system data.

AREAS OF EXPERTISE

- Reconstruction and computer simulation of collisions involving passenger vehicles, heavy trucks, recreational vehicles, motorcycles, bicycles, and pedestrians.
- Vehicle equipment, mechanical component and engine failure
- Event data recorder (EDR) imaging and analysis
 - o Passenger vehicles
 - o Heavy vehicle EDR (HVEDR)
 - o Infotainment systems
 - o Bicycle computers
 - o Telematics systems.
- Video and photogrammetry analysis in accident reconstruction.

EDUCATION

- 2015 **California State University-Los Angeles** – Los Angeles, CA.
Masters of Science, Mechanical Engineering (MSME)
Emphasis in Biomechanics
- 2012 **California State University-Los Angeles** – Los Angeles, CA.
Bachelors of Science, Mechanical Engineering (BSME)
Bachelors of Science, Manufacturing Engineering (BSME)

ACCREDITATIONS AND CERTIFICATIONS

- **Accreditation Commission for Traffic Accident Reconstruction (ACTAR)**
Traffic Accident Reconstructionist – ACTAR #4684
- **Engineer-in-Training, State of California**
Registration #144525

- **FAA UAS Airman**
Registration #4650240
- **LACMTA Rail Safety Certification**
- **Society of Automotive Engineers**
Accident Reconstruction

EMPLOYMENT HISTORY

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

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 collisions. Analyze failure modes of automotive mechanical components and mechanical systems, including brake, suspension, powertrain, bearings, engine and drivetrain. Analyze vehicle dynamics and performance, vehicle kinematics, occupant kinematics, advanced vehicle technologies, and vehicle systems.

Feb 2026 - **JS Forensic Consulting, LLC** – Encinitas, CA
Sept. 2026 *Accident Reconstructionist*

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 collisions. Analyze failure modes of automotive mechanical components and mechanical systems, including brake, suspension, powertrain, bearings, engine and drivetrain. Analyze vehicle dynamics and performance, vehicle kinematics, occupant kinematics, advanced vehicle technologies, and vehicle systems.

Mar. 2022 - **Mecanica Scientific Services Corporation** – San Diego, CA
Jan. 2026 *Senior Accident Reconstructionist*

Senior Crash Reconstructionist consulting in the documentation, analysis, and simulation of automotive, heavy truck/bus, motorcycle, bicycle and pedestrian accidents. Acquisition and analysis of event data from passenger vehicles, commercial vehicles, bicycle computers, and infotainment systems. Subspecialties include video analysis and photogrammetry analysis in accident reconstruction and the analysis of motorcycle and bicycle helmets. Utilize state-of-the-art data collection techniques and simulation software to comprehend and convey complex situations into clear and easy-to-understand visualizations for clients and juries.

Feb. 2022 - **Collision and Injury Dynamics** – Torrance, CA
May 2012 *Senior Staff Engineer*

Senior Staff Engineer involved in the documentation, analysis, and simulation of automotive, heavy truck/bus, motorcycle, bicycle and pedestrian accidents. Acquisition and analysis of event data from passenger vehicles, commercial vehicles, bicycle computers, and infotainment systems. Subspecialties include video analysis and photogrammetry analysis in accident reconstruction and the analysis of motorcycle and bicycle helmets.

2014 - **ACT Labs** – Long Beach, CA
2016 *Volunteer Helmet Test Technician*

Conduct motorcycle helmet tests in accordance with DOT FMVSS 218 test standard protocol. Conduct bicycle helmet tests in accordance with CPSC 16 CFR part 2103 safety standard and ASTM protective headgear standards.

2011

**American Honda Motor Company
Intern**

Intern with American Honda Motor Company's Parts and Service department. Led intern team to assess current state of Honda dealerships service transactions and provided recommendations to reduce time and costs in an effort to increase the customer experience.

PROFESSIONAL MEMBERSHIPS

- Society of Automotive Engineers (SAE)
- Southwestern Associate of Technical Accident Investigators, Inc. (SATAI)
- National Association of Professional Accident Reconstruction Specialists (NAPARS)
- Tau Beta Pi Engineering Honors Society

CONTINUING EDUCATION

- **Society of Automotive Engineers**
 - Accessing and Interpreting Heavy Vehicle Event Data Recorders: 2017, 2022
 - Advanced Applications of Heavy Vehicle EDR Data: 2022
 - Applying Automotive EDR Data to Traffic Crash Reconstruction: 2019, 2022
 - Digital Accident Reconstruction Digital Summit: 2022, 2023
 - Driver Distraction from Electronic Devices: Insights and Implications: 2025
 - Fundamentals of Automotive All-Wheel Drive Systems: 2025
 - Fundamentals of Vehicle Dynamics: 2021
 - Injury, Anatomy, Biomechanics & Federal Regulation: 2013
 - Reconstruction and Analysis of Rollover Crashes of Light Vehicles: 2016
 - Photogrammetry and Analysis of Digital Media: 2019
 - Vehicle Crash Reconstruction: 2021
- **Berla Corporation**
 - Certified Vehicle System Forensic Technician, 2020, 2022, 2024
 - Certified Vehicle System Forensic Examiner, 2020, 2022, 2024
- **LEVA International, Inc.**
 - Video Analysis in Collision Reconstruction, 2025
- **Collision Safety Institute**
 - Crash Data Retrieval Data Analyst, 2017
- **Northwestern University Center for Public Safety**
 - Crash Data Recorder System Technician - Level 1 & 2, 2014
 - Vehicle Dynamics, 2014
- **PC-Crash**
 - Advanced Multibody Analysis, 2016
 - Essentials & Expert Skills, 2012
- **Engineering Dynamics Corporation**
 - 2018 HVE Forum
- **EDR User's Summit**
 - 2024
- **Institute of Police Technology and Management**
 - Pedestrian/Bicycle Crash Investigation, 2015

- Advanced Traffic Crash Investigation, 2013
- **Interactive Driver Response Research (I.DRR)**
 - 2021 User Forum
- **Southwestern Association of Technical Accident Investigators, Inc**
 - Winter Conference: 2019, 2020
 - Summer Conference: 2023
 - Fall Conference: 2024
- • **Bendix Brake School**
 - Air Brake Training: 2023
 - Advanced Technology Training: 2024
- **World Reconstruction Exposition**
 - WREX 2023
- **Lightpoint Learning**
 - Motorcycle Collision Reconstruction, 2022

RESEARCH RELATED ACTIVITIES

- Large-scale study of motorcycle accidents developed by United States Department of Transportation, Federal Highway Administration, Office of Safety Research and Development, 2014-2017
 - Accident-involved motorcycle helmet documentation and analysis
 - Laboratory replication of damage utilizing DOT impact testing techniques