



**COLLISION  
AND INJURY  
DYNAMICS**

2275 W. 190th Street, Torrance, CA 90504 • 310.414.0449 • www.ci-dynamics.com

**Jose E. Tovar, BSME**  
**Senior Staff Engineer**  
jtovar@ci-dynamics.com

### **Professional Competence**

Mechanical Engineer with accident reconstruction analysis. Consulting on collision analysis involving automobiles, motorcycles, commercial vehicles, bicycles, and pedestrians. Specializing in video analysis, event data recorders, and motorcycle dynamics.

### **Education and Certification**

LEVA Certified Forensic Video Technician; 2021

- Law Enforcement and Emergency Services Video Association, Inc

SAE International

- Accident Reconstruction Certificate; 2019

Bachelor of Science in Mechanical Engineering

- Cal State University Northridge; 2017

California M1 Motorcycle Endorsement; 2013

### **Training**

LEVA International

- Level 3: The Principles of Forensic Video/Image Compare and Contrast; 2023
- Level 2: Digital Multimedia Evidence Processing; 2021
- Level 1: Forensic Video Analysis & The Law; 2019

SAE International

- Applied Vehicle Dynamics; 2019
- Reconstruction and Analysis of Motorcycle Crashes; 2019
- Photogrammetry and Analysis of Digital Media; 2019
- Applying Automotive EDR Data to Traffic Crash Reconstruction; 2019
- Accessing and Interpreting Heavy Vehicle Event Data Recorders; 2018
- Vehicle Crash Reconstruction Principles and Technology; 2017

Collision Safety Institute – (CDR) Technician Course; 2018

Tesla RCM Module Training; 2018

HVE EDCRASH Training Course; 2018

PC-Crash Training Course; 2018

Effective January 2024



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CAARs Conference Motorcycle / Vehicle Rollover 4<sup>th</sup> Quarter Training; 2017

Motorcycle Safety Course; 2013

- California Motorcycle Safety Program (CMSP)

## Conferences

- WREX 2023: World Reconstruction Exposition; 2023
- CrashCon22: Crash Data Group; 2022
- IDRR Forum: Interactive Driver Response Research Forum; 2022
- SATAI: Southwestern Association of Technical Accident Investigators; 2020 & 2018
- CAARs Conference Motorcycle / Vehicle Rollover 4<sup>th</sup> Quarter; 2017

## Professional Experience

2023 – Present

Collision and Injury Dynamics, Inc.

Accident reconstruction, including heavy trucks, automobiles, motorcycles, bicycles, and pedestrian accidents. Computer simulation, Video analysis and photogrammetry. Engineering Services, including vehicle and site inspections, re-enactments, visibility studies, traffic signal analysis, vehicle dynamics, rollover dynamics, and crash testing

2017 – 2023

Momentum Engineering Corp. (YA Engineering) - Senior Forensic Engineer

Accident reconstruction, including heavy trucks, automobiles, motorcycles, bicycles, and pedestrian accidents. Computer simulation, photogrammetry, and video analysis. Engineering Services, including vehicle and site inspections, re-enactments, visibility studies, traffic signal analysis, vehicle dynamics, rollover dynamics, and crash testing.

## Organizations

Society of Automotive Engineers

## Publications and Presentations

Auto Emerging Trends Presentation – Tesla Vehicles & Data  
Combined Claims Conference – August 2023

Nguyen, B.M., Fatzinger, E.C., Tovar J., Landerville J., "Using PC-Crash to Analyze Motorcycle Slide to Stop Dynamics," SAE Publication 2022-01-0822, 2022.

Simacek, D., Tovar, J., Famiglietti, N., Shkolkin, V. et al., "Stationary and Moving Camera Video Analysis Compared to Known Reference System," SAE Technical Paper 2021-01-0879, 2021.

Fatzinger, E., Landerville, J., Tovar, J., and Nguyen, B., "Validation of a PC-Crash Multibody Sport Bike Motorcycle Model," SAE Technical Paper 2021-01-0893, 2021.

