CHRISTOPHER R. JOHNK, PE
Senior Staff Engineer
cjohnk@ci-dynamics.com

Professional Competence

Accident Reconstruction:
Analysis of automobile, heavy truck, and pedestrian collisions, including momentum and energy considerations. CDR imaging and analysis. Photogrammetric analysis of photographs. Measuring of incident locations and vehicle crush utilizing 3D laser scanners.

Computer and Classical Analysis:
Computer-based accident reconstruction utilizing AutoCAD, PC-Crash, HVE, and Mathcad software.

Education and Certification

Bachelor of Science in Mechanical Engineering
-    University of California, Berkeley; 2014

Licensed Professional Mechanical Engineer
-    California Board of Professional Engineers, Number 40463; 2021
-    Texas Board of Professional Engineers, Number 132339; 2018

SAE Accident Reconstruction Certification; 2022

FAA Remote Pilot, Certificate Number 4060824; 2017

Training

-    Bendix Air Brake Training; 2024

-    LEVA Video Analysis in Collision Reconstruction; 2024

-    SAE Advanced Applications of Heavy Vehicle EDR Data; 2023

-    Vehicle Crash Reconstruction Methods Seminar; 2023

-    MATAI Fall Conference; 2022

-    SAE Accessing and Interpreting Heavy Vehicle Event Data Recorders; 2022

-    SAE Vehicle Crash Reconstruction: Principles and Technology; 2022

-    SAE Fundamentals of Automotive All-Wheel Drive Systems; 2021

-    SAE Introduction to Brake Controls: ABS, TCS, and ESC; 2021

-    Advanced Crash Reconstruction Utilizing Human Factors Research; 2021

Effective February 2024

- SAE Applying Automotive EDR Data to Traffic Crash Reconstruction; 2019
- PC-Crash Workshop; 2019
- SAE Photogrammetry and Analysis of Digital Media; 2019
- CAARS 2019 2nd Quarter Training; 2019
- EDR Summit; 2019
- SAE Vehicle Dynamics of Passenger Cars and Light Trucks; 2018
- EDR Summit; 2018
- Crash Data Retrieval Technician Course; 2018

Professional Experience

2020 – Present	Collision and Injury Dynamics, Inc. (Senior Staff Engineer)
	Employed as a Forensic Engineer to perform analysis, reconstruction, and presentation of results of vehicular accident cases. Download and analyze crash data from Event Data Recorders from both passenger and commercial vehicles. Assist Senior Consultants in conducting vehicle and scene inspections, documentation, and analysis of forensic data from accident vehicles and accident scenes, involving laser total station and 3D scanning operations, and PC-Crash and HVE computer simulation and trial preparation.
2019 – 2019	Momentum Engineering Corp. (Forensic Engineer)
	Accident reconstruction, including automobiles, heavy trucks, motorcycles, bicycles, and pedestrian accidents. Engineering services include site and vehicle inspections, 3D laser scanning, photography, video, and general documentation. Additional services include photogrammetry, complete collision analysis, computer simulation, vehicle dynamics, and rollover reconstruction.
2014 – 2019	Dynamic Analysis Group, LLC (Project Engineer)
	Accident reconstruction, including automobiles, heavy trucks, and pedestrian accidents. Engineering services included site and vehicle inspections, 3D laser scanning, photography, video, and general documentation. Additional services included photogrammetry, collision analysis, CDR imaging and analysis, computer simulation, and testing.

Organizations

SAE International (SAE)
California Association of Accident Reconstruction Specialists (CAARS)
Southwestern Association of Technical Accident Investigators (SATAI)

Biographical Sketch

Mr. Johnk was born in San Diego, California. He received a B.S. in Mechanical Engineering from the University of California, Berkeley in 2014, and Professional Engineer licensure in 2018. Mr. Johnk has worked in the field of accident reconstruction for over eight years and has conducted analyses for hundreds of litigation matters, with a focus on vehicle-to-vehicle collisions.

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