COLLISION AND INJURY DYNAMICS
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CHRISTOPHER R. JOHNK, PE
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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.

Automotive:
Brakes, steering, engines, cooling systems, clutches, transmissions, drivetrain, suspension, and body-structure repair. Vintage car restoration and race vehicle preparation.

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

FAA Remote Pilot, Certificate Number 4060824; 2017

Training

- 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. (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 in 1992. 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 six years and has conducted analyses for hundreds of litigation matters, with a focus on vehicle-to-vehicle collisions.

While attending UC Berkeley, Mr. Johnk was a machinist and test driver for the school's Formula SAE team. As a lifelong car enthusiast, he restores classic cars and races in SCCA and endurance racing events. He is also an avid drummer and was a member of the Cal Band Drumline. Beyond his passion for cars and music, Mr. Johnk enjoys surfing, rock climbing and running.

Effective April 2021