

Carr Engineering, INC.
12500 CASTLEBRIDGE DRIVE HOUSTON, TEXAS 77065-4532
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AARON D. OSTERHOUT

Specialized Professional Competence

- Crash Analysis and Reconstruction – Vehicle and scene inspection including use of the Nokia Total Station Laser Survey equipment; FARO digitization of crash and exemplar vehicles for crush and deflection analysis; reconstruction speed and rollover analysis; computer-aided crash analysis including use of EDCrash and EDSmac.
- Crash Simulation and Analysis with Hyge Sled – development of crash pulse profiles; ATD (dummy) instrumentation and positioning; data collection, processing, and analysis; digital high-speed camera operation. Data analysis versus specified injury criteria, airbag timing and deployment, electronic report generation with full digital results
- Sled Testing Engineer – Ten plus years and four thousand plus tests performed on crash sled. Specific testing includes: seat backs, seat track structures, full seating systems, component product development, product validation and certification; static and dynamic airbag testing; floor pan rigidity; rear seat cargo retention; low speed rear impacts with whiplash countermeasures

Professional Qualifications

- Bachelor of Science in Mechanical Engineering,
Lawrence Technological University – Southfield, Michigan December 2001
- Graduate Engineer, Carr Engineering, Inc. 06/03 - Present
Engineer responsible for crash reconstruction. Test Engineer responsible for operation and analysis of crash tests on a Hyge Sled.
- Senior Engineer / Supervisor, Lear Corporation 12/01 – 06/03
Engineering Supervisor responsible for Dynamic (Hyge Sled) and Static Safety testing.
- Test Engineer / Technician, Lear Corporation 10/94 - 12/01
Test engineer responsible for pulse development, post test report generation, digital motion analysis, ATD instrumentation, and operation of the Hyge sled. Test Technician responsible for test setup, firing of sled, data collection, and photography.

Other

- Experienced in following Federal Regulations: FMVSS 208, 207, 214, 202, 207/210, and 225
- Northwestern University Center for Public Safety Traffic Accident Reconstruction Course
- “The Role of the Seat in Rear Crash Safety” – SAE class instructed by David C. Viano
- Engineering Dynamics Corporation Reconstruction Training Course
- Engineering Dynamics Corporation Simulations Training Course
- Member – Society of Automotive Engineers
- Various Quality Training Courses (ISO, QS, 6-Sigma)