

## **CARR ENGINEERING, INC.**

12500 CASTLEBRIDGE DRIVE      HOUSTON, TEXAS 77065-4532  
TELEPHONE      281-894-8955

### **Aaron D. Osterhout**

- Bachelor of Science in Mechanical Engineering, Lawrence Technological University, 2001

### **Specialized Professional Competencies**

- Motor vehicle crash reconstruction including vehicle and scene inspections; proficiency with Leica Total Station laser survey equipment; skilled with FARO 3D scanning techniques; digitization of subject and exemplar vehicles for crush and deflection analysis; calculation of speed and rollover dynamics; computer-aided crash analysis including use of EDCRASH and EDSMAC.
- Full-scale and Hyge acceleration sled crash testing including the development of crash pulse profiles; ATD (dummy) instrumentation and positioning; data collection, processing, and analysis; digital high-speed camera operation; evaluation of test results and specified injury criterion; airbag timing and occupant restraint system deployment; compliance and/or engineering report generation with full digital results.
- Hyge acceleration sled testing including evaluation of seat back design; 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. Over 22 years of experience and over 4,000 tests performed.

### **Professional Qualifications**

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|--|-----------------|
| ○ Graduate Engineer, Carr Engineering, Inc.        | 2003 to Present |
| ○ Senior Engineer and Supervisor, Lear Corporation | 2001 to 2003    |
| ○ Test Engineer / Technician, Lear Corporation     | 1994 to 2001    |

### **Training and Professional Development**

- Northwestern University Center for Public Safety – Traffic Accident Reconstruction
- SAE International – The Role of the Seat in Rear Crash Safety – David Viano, 2008
- SAE International – Applied Vehicle Dynamics – James Walker, Jr., 2015
- Engineering Dynamics Corporation – Reconstruction and simulation training courses
- Practitioner – FMVSS 208, 207, 214, 202, 207/210, and 225
- Member – SAE International
- Author – SAE 2015-01-1448 – EDR Pulse Component Vector Analysis, Carr Engineering, Inc., 2015