

Curriculum Vitae for James Walker, Jr.

Education and Licensing

- Bachelor of Science in Mechanical Engineering, GMI, 1994
- Registered Professional Engineer in the State of Texas, 2008 to present

Specialized Professional Competencies

- Motor vehicle crash investigation, reconstruction, and failure analysis to determine causes, conditions, and circumstances
- Specification, design, test, and evaluation of electronic control systems for motor vehicle steering, handling, acceleration, braking systems, and advanced driver assistance systems
- Specification, design, test, and evaluation of conventional motor vehicle steering, handling, acceleration, and braking systems, including dynamic stability assessment
- Application/certification of Federal Motor Vehicle Safety Standards as well as associated vehicle manufacturer internal performance requirements and specifications

Professional Experience and Qualifications

- Powertrain System Test Engineer, AC Rochester, July 1989 to January 1995
- Brake Control Systems Engineer, Kelsey-Hayes, January 1995 to May 1996
- Brake Control Senior Design/Release Engineer, Saturn/GM, May 1996 to October 1999
- Brake Control Senior Application Engineer, Bosch, October 1999 to May 2002
- Brake Control Senior Design/Release Engineer, Ford, May 2002 to May 2003
- Engineering Manager of Vehicle Development, Delphi, May 2003 to October 2006
- Principal Engineer, Carr Engineering, Inc., October 2006 to present

Publications and Instructing Achievements

- Creator/instructor of five SAE Professional Development Seminars focusing on brake control systems, vehicle dynamics, and high-performance brake systems, 2004 to present
- Author of High-Performance Brake Systems: Design, Selection, and Installation, 2007
- Author of multiple magazine articles and technical white papers focusing on steering, handling, braking, and overall vehicle dynamics, 1997 to 2005
- Recipient of SAE's Forrest R. McFarland Award for contributions toward Professional Development, 2005
- SAE Certificates of Achievement in Vehicle Dynamics and Accident Reconstruction
- Recipient of SAE's Master Instructor designation, 2010

Motorsports Experience

- Competition license holder for sanctioned road racing events with organizations including the Sports Car Club of America, the Historic Motor Sports Association, the International Motor Sports Association, and the SRO Motorsports Group, 1997 to present
- Participant/instructor for high-performance driving schools with organizations including the Porsche Club of America and the BMW Car Club of America, 1992 to present