



Résumé of  
**WAYNE J. BIEVER, M.S.**

**Kineticorp™**

*Denver:*  
6070 Greenwood Plaza Blvd., Suite 200  
Greenwood Village, Colorado 80111  
Tel: 303.733.1888  
Fax: 303.733.1902  
wbiever@kineticorp.com

**EDUCATION:** **M.S., Human Factors Engineering**, Virginia Tech, Blacksburg, Virginia 1999.  
**B.S., Industrial and Systems Engineering**, Virginia Tech, Blacksburg, Virginia 1995  
Mr. Biever completed additional coursework at Virginia Tech for a certificate in Safety Engineering.  
Mr. Biever completed a one year graduate program in Assistive Technology at the University of Colorado, 2007.

**AWARDS:** National Highway Traffic Safety Administration GRA Scholarship, Virginia Tech, 1996-1998.

**EMPLOYMENT:** Forensic Engineer - Kineticorp, LLC, Denver, Colorado, 2010 to Present  
President and Principal Engineer - Castor Ltd., Denver, Colorado, 2005 to Present  
Senior Human Factors Engineer - Alion Science and Technology, Boulder, Colorado, 2008-2010  
Assistive Technology Researcher - Assistive Technology Partners, Denver, Colorado, 2007  
Human Factors Engineer - Crash Avoidance Metrics Partnership, Detroit, Michigan 2003-2005  
Human Factors Engineer - Virginia Tech Transportation Institute, Blacksburg, Virginia, 2002-2003  
User Interface Designer - TRW, Herndon, Virginia, 2000-2002  
MANPRINT Evaluator - TRW, Arlington, Virginia, 1999-2000  
Human Factors Researcher - Center for Transportation Research, Blacksburg, Virginia, 1997-1999  
Web Developer Intern – MCI, Pentagon City, Virginia, 1996

**EXPERIENCE:** At Kineticorp, Mr. Biever reconstructs vehicular crashes involving passenger and commercial vehicles, motorcycles, bicycles, and pedestrians. He analyzes evidence, performs calculations using principles of physics, and uses computer simulation to analyze vehicle motion. Prior to joining Kineticorp, Mr. Biever worked as a Senior Human Factors Engineer at Alion Science and Technology where he provided human factors support to design and development of the Orion spacecraft, evaluated human performance requirements and designs for multiple vehicle subsystems and ground support equipment, worked on the development of a human factors research simulator for the Federal Railway Administration, and supported development of Human Systems Integration cognitive map tool for the Air Force. In 2005, Mr. Biever formed Castor Ltd., initially to provide contract support to General Motors for analysis of a large human performance database associated with in-vehicle information systems and their impacts on driving performance. Prior to that, Mr. Biever participated in on-road data collection for major automotive industry clients as a part of the Crash Avoidance Metrics Partnership and the Virginia Tech Transportation Institute. This included developing protocols and procedures for data collection and processing, carrying out analysis using Minitab, SPSS, Matlab, and Excel, and prepared design suggestions, final reports and presentations for tested products. As an Engineering Specialist at TRW, Mr. Biever provided testing and evaluation support to the Joint Interoperability Test Command, made design recommendations and evaluations for the Global Command and Control System and the Global Combat Support System, completed several on site tests at installations covering all military branches nationwide and wrote protocols and procedures for tests and the entire testing program for GCSS. As an evaluator at TRW, Mr. Biever provided Human Factors, Health, Safety, Manpower, Personnel, Training and Soldier Survivability (MANPRINT) support to the Army Operational Testing and Evaluation Command, conducted MANPRINT design evaluations of rappelling, cargo storage, chemical and biological protective and other equipment, directed test activities on military installations, conducted data collection, storage, processing, analysis and presentations for tests, and worked on Classified, Secret and company sensitive projects. As a Human Factors Researcher at the Center for Transportation Research, Mr. Biever collected performance and subjective data from participants, assisted in the development of hardware and software specifications and protocols, performed data reduction and analysis, researched existing body of knowledge, and wrote technical papers and reports.

**PROFESSIONAL AFFILIATIONS:** Human Factors and Ergonomics Society (HFES), Surface Transportation Technical Group, Forensics Professional Group, Society of Automotive Engineers (SAE).

**Wayne J. Biever, M.S.**  
*Engineer - Accident Reconstruction*



6070 Greenwood Plaza Blvd., Suite 200  
Greenwood Village, Colorado 80111  
Tel: 303.733.1888, Fax: 303.733.1902

#### **Publications**

- L. Angell, J. Auflick, P.A. Austria, D. Kochhar, L. Tijerina, **W. Biever**, T. Diptiman, J. Hogsett, and S. Kiger (CAMP) (2006) Driver Workload Metrics Project: Final Report. DOT HS 810 635
- **Biever, W. J.** (1999). Auditory based supplemental information processing demand effects on driving performance. Unpublished master's thesis, Virginia Polytechnic Institute and State University, Blacksburg, VA.
- Collins, D. J., **Biever, W. J.**, Dingus, T. A., & Neale, V. L. (1997). Development of human factors guidelines for advanced traveler information systems and commercial vehicle operations: Driver performance and behavior interaction with ISIS under reduced visibility conditions (Contract No. DTFH61-92-C-00102). Blacksburg, VA: Center for Transportation Research, VPI & SU.
- Hanowski, R. J., Gallagher, J. P., Kieliszewski, C. A., Dingus, T. A., **Biever, W.**, & Neale, V. (1997). Development of human factors guidelines for advanced traveler information systems and commercial vehicle operations: Driver response to unexpected situations when using an in-vehicle information system (Contract No. DTFH61-92-C-00102). Blacksburg, VA: Center for Transportation Research, VPI & SU.

#### **Testing and Studies**

- In-vehicle task on road platoon data collection, Detroit, MI, 2004
- High workload in-vehicle task data collection, high speed test track, Romeo, MI, 2005
- Night visibility, VTTI, Blacksburg, VA, 2003.
- Collision warning system evaluation, VTTI, Blacksburg, VA, 2002.
- Semi-tractor brake reaction time, New River Valley Speedway, Radford, VA, 1999.