



CURRICULUM VITAE  
STEVEN G. STORVIK

**EDUCATION**

- 2011 MS MARQUETTE UNIVERSITY – MILWAUKEE, WISCONSIN  
Biomedical Engineering (Specialization: Biomechanics)
- 2008 BS MILWAUKEE SCHOOL OF ENGINEERING – MILWAUKEE, WISCONSIN  
Biomedical Engineering

**PROFESSIONAL EXPERIENCE**

- 2011 – DATE VECTOR SCIENTIFIC, INC.  
*Senior Biomechanical Engineer / Research Investigator*  
*Injury Biomechanics*
- 2008 – 2011 MEDICAL COLLEGE OF WISCONSIN – DEPARTMENT OF NEUROSURGERY  
*Research Engineer*
- Automotive crashworthiness testing and investigation of occupant safety systems using Hybrid III and THOR dummies, cadaveric specimens, and the MADYMO suite.
  - Collected and analyzed kinematic data using Vicon 3-D motion capture.
  - Designed and fabricated an experimental model to assess ejection seat injury biomechanics
  - Characterized experimental burst and wedge fractures in isolated osteoligamentous lumbar spine specimens.
- 2004 – 2008 MILWAUKEE SCHOOL OF ENGINEERING – INFORMATION TECHNOLOGY DEPARTMENT  
*Technician*
- Serviced hardware changes and software updates for campus-wide HP laptops.
  - Provided technical support and customer service at IT helpdesk.

### **REFEREED JOURNAL PUBLICATIONS**

Storvik SG, Campbell JQ, Wheeler JB. Asphyxia in Motor Vehicle Crashes: Analysis of Crash-Related Variables Using National Automotive Sampling System Crashworthiness Data System and Forensic Case Studies. *American Journal of Forensic Medicine and Pathology*, 38 (2), 145-152, 2017.

Stemper BD, Yoganandan N, Paskoff GR, Fijalkowski RJ, Storvik SG, Baisden JL, Pintar FA, Shender BS. Thoracolumbar spine trauma in military environments. *Minerva Ortopedica e Traumatologica*, 62 (5), 397-412, 2011.

Stemper BD, Storvik SG, Yoganandan N, Baisden JL, Fijalkowski RJ, Pintar FA, Shender BS, Paskoff GR. A new PMHS model for lumbar spine injuries during vertical acceleration. *Journal of Biomechanical Engineering*, 133 (8) 081002, 2011.

Storvik SG, Stemper BD. Axial head rotation increases facet joint capsular ligament strains in automotive rear impact. *Medical and Biological Engineering and Computing*, 49 (2), 153-161, 2011.

Stemper BD, Storvik SG. Incorporation of lower neck shear forces to predict facet joint injury risk in low-speed automotive rear impacts. *Traffic Injury Prevention*, 11 (3), 300-308, 2010.

Storvik SG, Stemper BD, Yoganandan N, Pintar FA. Population-based estimates of whiplash injury using NASS CDS data. *Biomedical Sciences Instrumentation*, 45, 244-249, 2009.

### **REFEREED CONFERENCE PROCEEDINGS**

Storvik SG, Yoganandan N, Pintar FA, Stemper BD. Experimental induction of lumbar spine compression-flexion injuries. *Proceedings of the 2010 ASME Summer Bioengineering Conference*, Naples, FL, June 16-19, 2010.

Stemper BD, Storvik SG, Yoganandan N, Pintar FA. Verification of lower neck shear force as a rear impact injury criterion. *International IRCOBI Conference on the Biomechanics of Impact*, York, UK, September 9-11, 2009.

### **OTHER ABSTRACTS AND POSTERS**

Storvik SG, Stemper BD, Yoganandan N, Pintar FA. Development of an experimental model to quantify lumbar spine kinematics during pilot ejection. *Marquette University Biomedical Engineering Symposium*, Milwaukee, WI, April 15, 2010.

Storvik SG, Stemper BD, Kumar S. Axial head rotation increase capsular ligament distractions during simulated automotive rear impact. *Biomedical Engineering Society (BMES) Annual Meeting*, Pittsburgh, PA, October 7-10, 2009.

Storvik SG, Stemper BD, Yoganandan N, Pintar FA. Evaluation of automotive rear impact injury risk using lower neck shear force. *Marquette University Biomedical Engineering Symposium*, Milwaukee, WI, March 26, 2009.

### **ORAL PRESENTATIONS**

Storvik SG, Clark JM, Baker WA, Sreedhar A. Accident Reconstruction and Injury Biomechanics in Low-Speed Motor Vehicle Collisions. CLE Accredited Seminar in Colorado, 2022

Wheeler JB, Weimer Z, Storvik SG, Baker WA, Clark JM. Accident Reconstruction and Injury Biomechanics in Low-Speed Motor Vehicle Collisions. CLE Accredited Seminar in California, 2022

Wheeler JB, Weimer Z, Storvik SG, Baker WA, Clark JM. Accident Reconstruction and Injury Biomechanics in Low-Speed Motor Vehicle Collisions. CLE Accredited Seminars in Arizona and Colorado, 2021

Wheeler JB, Storvik SG. Injury Biomechanics in Low Speed Motor Vehicle Collisions. White and Steele Wyoming Insurance Claims Seminar, Denver, Colorado, February 2020

Biomechanics of Lumbar Spine Compress-Flexion Injuries During Pilot Ejection, Neurosurgery Department Grand Rounds, Medical College of Wisconsin, Milwaukee, WI, November 2010

### **AWARDS AND HONORS**

Best Student Paper Award  
*Rocky Mountain Bioengineering Symposium (RMBS)*  
Milwaukee, WI, April 17-19, 2009

### **PROFESSIONAL MEMBERSHIPS AND ACTIVITIES**

Member Society of Automotive Engineers (SAE), 2007 – Present

Member Biomedical Engineering Society (BMES), 2005 – Present

Member Alpha Eta Mu Beta (AEMB), 2007 – Present

Reviewer Society of Automotive Engineers (SAE) Technical Papers, 2017-2018

Reviewer Biomedical Sciences Instrumentation Journal, 2009

### **CONFERENCES, SEMINARS, AND SHORT COURSES**

2023 Internaional Research Council on the Biomechanics of Injury  
IRCOBI Conference 2023 – Cambridge, England  
IRCOBI 2023 Global Crash Database Overview and Workshop – Cambridge, England

2022 CrashCon22 – New Orleans, LA

2015 59th Stapp Car Crash Conference – New Orleans, LA

2014 58th Stapp Car Crash Conference – San Diego, CA

2013 Society of Automotive Engineers – Safety and Accident Reconstruction  
*Injuries, Anatomy, Biomechanics & Federal Regulation* – Troy, MI

2011 Society of Automotive Engineers Government / Industry Meeting – Washington, D.C.