



CURRICULUM VITAE
STEVEN G. STORVIK

EDUCATION

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| 2011 | MS | MARQUETTE UNIVERSITY – MILWAUKEE, WISCONSIN
Biomedical Engineering |
| 2008 | BS | MILWAUKEE SCHOOL OF ENGINEERING – MILWAUKEE, WISCONSIN
Biomedical Engineering |

PROFESSIONAL EXPERIENCE

- | | |
|-------------|---|
| 2011 – DATE | VECTOR SCIENTIFIC, INC.
<i>Biomechanical Engineer</i> |
| | <ul style="list-style-type: none">• Impact injury biomechanics research and forensic consulting in automotive collisions |
| 2008 – 2011 | MEDICAL COLLEGE OF WISCONSIN.
<i>Research Engineer, Department of Neurosurgery</i> |
| | <ul style="list-style-type: none">• Conducted automotive crashworthiness tests investigating 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• Characterized experimental burst and wedge fractures in isolated osteoligamentous lumbar spines |
| 2004 – 2008 | MILWAUKEE SCHOOL OF ENGINEERING
<i>Technician, Information Technology Department</i> |
| | <ul style="list-style-type: none">• Serviced hardware changes and software updates for campus-wide HP laptops• Provided technical support and customer service at IT helpdesk |

REFEREED JOURNAL PUBLICATIONS

Storvik S.G., Campbell, J.Q., Wheeler, J.B., 2017, "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*, Vol. 38, Iss. 2, pp. 145-152

Stemper, B.D., Yoganandan, N., Paskoff, G.R., Fijalkowski R.J., Storvik, S.G., Baisden, J.L., Pintar, F.A., Shender, B.S., 2011, "Thoracolumbar spine trauma in military environments", *Minerva Ortopedica e Traumatologica*, Vol. 62, Iss. 5, pp. 397-412

Stemper, B.D., Storvik, S.G., Yoganandan, N., Baisden, J.L., Fijalkowski R.J., Pintar, F.A., Shender, B.S., Paskoff, G.R., 2011, "A new PMHS model for lumbar spine injuries during vertical acceleration", *Journal of Biomechanical Engineering*, Vol. 133, Iss. 8, 081002

Storvik, S.G., Stemper, B.D., 2011, "Axial head rotation increases facet joint capsular ligament strains in automotive rear impact", *Medical and Biological Engineering and Computing*, Vol. 49, No. 2, pp. 153-161

Stemper, B.D., Storvik, S.G., 2010, "Incorporation of lower neck shear forces to predict facet joint injury risk in low-speed automotive rear impacts", *Traffic Injury Prevention*, Vol. 11, No. 3, pp. 300-308

Storvik, S.G., Stemper, B.D., Yoganandan, N., Pintar, F.A., 2009, "Population-based estimates of whiplash injury using NASS CDS data", *Biomedical Sciences Instrumentation*, Vol. 45, pp. 244-249

REFEREED CONFERENCE PROCEEDINGS

Storvik, S.G., Yoganandan, N., Pintar F.A., Stemper, B.D., 2010, "Experimental induction of lumbar spine compression-flexion injuries", *Proceedings of the 2010 ASME Summer Bioengineering Conference*, Naples, FL, June 16-19

Stemper, B.D., Storvik, S.G., Yoganandan, N., Pintar, F.A., 2009, "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

OTHER ABSTRACTS AND POSTERS

Storvik, S.G., Stemper, B.D., Yoganandan, N., Pintar, F.A., 2010, "Development of an experimental model to quantify lumbar spine kinematics during pilot ejection", Marquette University Biomedical Engineering Symposium, Milwaukee, WI, April 15

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

Storvik, S.G., Stemper, B.D., Yoganandan, N., Pintar, F.A., 2009, "Evaluation of automotive rear impact injury risk using lower neck shear force", Marquette University Biomedical Engineering Symposium, Milwaukee, WI, March 26

AWARDS AND HONORS

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

PROFESSIONAL MEMBERSHIPS AND ACTIVITIES

Reviewer Biomedical Sciences Instrumentation Journal, 2009

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

Member Biomedical Engineering Society (BMES), 2005 – Present

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

SEMINARS AND SHORT COURSES

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

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

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