Zdravko Salipur, PH.D., P.E.

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PROFESSIONAL PROFILE

Dr. Salipur has nearly two decades of research experience and 10+ years of forensic experience. Dr. Salipur's forensic experience specializes in biomechanics and injury causation, product liability, premises liability and transportation related matters. With a profound scientific background and experience on highly litigated files, Dr. Salipur is capable of servicing a wide variety of clients throughout the country and a multitude of industries.

POSITIONS

Brillouin Consulting — **Phoenix Area, AZ | San Francisco Bay Area, CA**
Principal — Nov 2024 - Present
Biomechanical, patent, product, medical device, premises liability, accident reconstruction and human factors expert focused in industrial and failure analysis files for corporate, government and legal clients.

Axis Consulting — **Scottsdale, AZ | Newport Beach, CA**
Senior Engineer & Regional Director — Sep 2023 - Nov 2024
Conducted site inspections to collect and analyze forensic evidence for claim and litigated files related to accident reconstruction, biomechanics, human factors, patent litigation, premises liability, and product liability matters. Managed both claim and litigated matters throughout the US.

Exponent, Inc. — **Phoenix, AZ**
Manager, Center for Scientific User Research (CSUR), Human Factors Practice — Sep 2023 - Nov 2024
Dr. Salipur has over 10 years research experience with a focus in biomechanics, and specialized expertise in ergonomics, wheeled mobility devices, assistive technology, rehabilitation engineering. Dr. Salipur worked in Exponent's Phoenix User Research Center (PURC), where he conducted user research, product usability testing, and health and safety research. Dr. Salipur has extensive technical expertise related to motion capture, product safety, product effectiveness, and product-to-human interactions. He also has experience with experimental testing, ranging from sled and full-scale vehicle testing to component-level mechanical testing, including testing with anthropomorphic test devices (ATDs) and human subjects. While at Exponent, Dr. Salipur conducted numerous motion capture and ergonomic studies for various industrial clients ranging from consumer electronics to industrial machine manufacturers. His research and analyses helped guide the decision-making process in various stages of the product design cycle. Dr. Salipur also frequently conducted incident investigations and product evaluations in the context of legal proceedings in a variety of jurisdictions and has testified on multiple occasions.

Senior Associate — Jan 2019 - Mar 2020
Phoenix User Research Center (PURC)
Human Factors Practice

Senior Associate — Feb 2016 - Dec 2018
Biomechanics Practice, Phoenix, AZ

Senior Associate — Mar 2015 - Feb 2016
Biomechanics Practice, Menlo Park, CA

Associate — Oct 2013 - Mar 2015
Biomechanics Practice, Phoenx, CA

ACADEMIC CREDENTIALS

University of Louisville — **Louisville, KY**
Ph.D., Mechanical Engineering, Dean's Citation — 2013

University of Louisville — **Louisville, KY**
M.Eng., Mechanical Engineering, Summa Cum Laude — 2008

University of Louisville — **Louisville, KY**
B.S., Mechanical Engineering, Magna Cum Laude — 2005

PROFESSIONAL HONORS

- Switzer Fellowship, National Institute on Disability and Rehabilitation Research (NIDRR)
- Grosscurth Fellowship, University of Louisville
- Pi Tau Sigma, Mechanical Engineering Honor Society
- Tau Beta Pi, Engineering Honor Society
- Northwestern University Center for Public Safety, Traffic Crash Reconstruction

PROFESSIONAL AFFILIATIONS

- Executive Committee Member, Member of the Board of Directors, Bosnian-Herzegovinian American Academy of Arts and Sciences
- Society of Automotive Engineers — SAE
- American Society of Mechanical Engineers — ASME
- ANSI/RESNA Standards Committee on Wheelchairs and Transportation — COWHAT

LANGUAGES

- German
- Bosnian
- Croatian
- Serbian

PUBLICATIONS

- Salipur Z, et al. RESNA Annual Conference, Accessibility of U-Haul Rental Vehicles, 2021.
- Frost K, Bertocci G, Salipur Z. Wheelchair securement and occupant restraint system (WTORS) practices in public transit buses. Assistive Technology Journal 2013; 25(1).
- Salipur Z, Frost K, Bertocci G. Investigation of wheelchair instability during transport in large accessible transit vehicles. Journal of Rehabilitation Research and Development 2012; 49(6).
- Salipur Z, Bertocci G. Wheelchair tiedown and occupant restraint loading associated with an adult manual transit wheelchair in rear impact. Journal of Rehabilitation Research and Development 2010; 47(2).
- Salipur Z, Bertocci G. Development and validation of rear impact computer simulation model of an adult manual transit wheelchair with a seated occupant. Medical Engineering and Physics 2010; 32:66-75.

PRESENTATIONS

Published Abstracts & Presentations

- Salipur Z, Bertocci G. Development and validation of rear impact computer simulation model of an adult manual transit wheelchair with a seated occupant. Proceedings, Annual RESNA 2008 Conference, June 2008.
- Salipur Z, Bertocci G, Manary M, Ritchie N. Wheelchair tiedown and occupant restraint system loading associated with an adult manual ANSI WC-19 transit wheelchair with a seated 50th percentile ATD exposed to rear impact. Proceedings, Annual RESNA 2007 Conference, June 2007.

Selected Invited Presentations

- Manary M, Bezaire B, Bertocci G, Salipur Z, Schneider L. Crashworthiness of forward-facing wheelchairs under rear impact conditions. Proceedings, Annual RESNA 2007 Conference, June 2007.
- Salipur Z. The Role of a Biomechanical Expert in Claims & Litigated Files. Continued Legal Education Seminars. Northern California, Southern California, Arizona, Multiple Law Firms, 2024.
- Salipur Z. You May Affect the Outcome: Knowing the Ins & Outs of Wheelchair Transportation Safety. American Public Transportation Association (APTA), Risk Management Seminar 2017. San Diego, CA, August, 2017.
- Salipur Z., Hashish R. The Biomechanics of Lower Back Injuries. Continued Legal Education Seminar, Uhaul Legal Department, Phoenix, AZ, March 2016.
- Salipur Z., Sharpe S. Biomechanics: How to Determine Injury Mechanism. Continued Legal Education Seminar, Arizona Association of Defense Counsel, Phoenix, AZ, November 2014.
- Salipur Z. Kinematic environment and consequences of wheelchair tiedown and occupant restraint system practices on wheelchair passenger safety in fixed-route transit. Biomedical Engineering Society (BMES) Research Showcase, University of Louisville, Louisville, KY, April 2012.
- Salipur Z. Kinematic environment and consequences of wheelchair tiedown and occupant restraint system practices in fixed-route transit. American Society of Mechanical Engineers (ASME), Louisville Professional Chapter Meeting, Louisville, KY, February 2012.
- Salipur Z. Consequences of wheelchair tiedown and occupant restraint system practices on wheelchair passenger safety in fixed-route transit. Mary E. Switzer Research Fellowship Seminar National Institute on Disability and Rehabilitation Research (NIDRR), Arlington, VA, December 2011.
- Salipur Z. Development and validation of rear impact computer simulation model of an adult manual transit wheelchair with a seated occupant. Annual Conference of Rehabilitation Engineering and Assistive Technology Society of North America (RESNA), Washington, D.C., June 2008.
- Salipur Z. Wheelchair tiedown and occupant restraint system loading associated with an adult manual ANSI WC19 transit wheelchair with a seated 50th percentile ATD exposed to rear impact. Annual Conference of Rehabilitation Engineering and Assistive Technology Society of North America (RESNA), Phoenix, AZ, June 2007.
- Salipur Z. Transit wheelchair performance and tiedown loading in rear impact. Biomedical Engineering Society (BMES), University of Louisville Student Chapter -Professional Development Forum, April 2007.
- Salipur Z. Transit wheelchair performance and tiedown loading in rear impact, American Society of Mechanical Engineers (ASME) / American Society of Heating, Refrigerating, and Air-Conditioning Engineers (ASHRAE) Louisville Professional Chapters, Professional Development, Louisville, KY, March 2007.