



Wade A. Baker, MS, ACTAR
Senior Engineer / Research Investigator
Accident Reconstruction and Injury Biomechanics

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Mr. Baker obtained his BS in Mechanical Engineering and MS in Biomedical Engineering and Mechanics from Virginia Tech and Wake Forest University.

Wade conducts accident reconstruction and injury biomechanics analysis in motor vehicle collisions as well as occupational/industrial, premise, and sport/recreation accidents. He is a certified Crash Data Retrieval (CDR) technician and analyst, FAA licensed drone pilot, and is a fully accredited (ACTAR) traffic accident reconstructionist.

Mr. Baker's biomechanical expertise includes injury mechanics of the head, spine, shoulder, hip, and knee. Mr. Baker has also led the biomechanics team at VSI on a research project quantifying rear-end collision head kinematics in over 1,000 crash tests with over 700 unique vehicle seats, which has led to several presentations and publications regarding head kinematics and concussion injury biomechanics.

Mr. Baker's graduate research at Virginia Tech's Center for Injury Biomechanics included collaboration with the U.S. Army Research Laboratory to develop a new anthropomorphic test dummy (ATD) for military vehicles. His research and publications focused on lower leg injury biomechanics and computer modeling. Mr. Baker's research has been published in the *Journal of Biomechanics*, *Traffic Injury Prevention*, and the *Journal of the Mechanical Behavior of Biomedical Materials*. Mr. Baker has testified as an expert witness in a half-dozen or more depositions and trials.

- Master of Science (MS) Biomedical Engineering and Mechanics – Virginia Tech
- Bachelor of Science (BS) Mechanical Engineering – Virginia Tech
- Accredited Traffic Accident Reconstructionist – Accreditation Commission for Traffic Accident Reconstruction (ACTAR)

