



Résumé of
Martin W. Randolph, B.S.
Engineer

Kineticcorp™

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EXPERIENCE: **Engineer** – Kineticcorp, LLC, Denver, Colorado, October 2014 to Present
Design Engineer – Rocky Mountain Orthodontics, Denver, CO
September 2011 to October 2014

EDUCATION: **B.S., Mechanical Engineering**, (2011) University of Missouri, Columbia, MO

CERTIFICATIONS: **Engineer Intern** – Missouri Board for Professional Engineers, 2011
Bosch Crash Data Retrieval (CDR) System® - Technician Level I and II
Colorado Class A Commercial Driver's License

AWARDS: **College of Engineering Dean's List** – University of Missouri

FORENSIC ENGINEERING: Mr. Randolph investigates, researches, and reconstructs vehicular accidents. He performs calculations using principles of physics, numerical methods, analyzes physical evidence, and uses computer simulation programs to examine vehicle dynamics as related to accident reconstruction. Mr. Randolph investigates accidents involving passenger vehicles, motorcycles, commercial vehicles, and buses. He has also reconstructed accidents involving post-collision fires and analyzed single vehicle rollover accidents. Mr. Randolph has conducted vehicle and scene inspections using 3D scanning equipment, surveying tools, and cameras.

DESIGN ENGINEER: Prior to his employment at Kineticcorp, Mr. Randolph worked as Design Engineer for a medical device manufacturer specializing in orthodontic appliances at RMO in Denver, CO (2011 to 2014). His responsibilities included aiding in new product design within the research and development team, implementing and validating automated production equipment, quality control, and supporting manufacturing operations. Mr. Randolph is a patent holder for an orthodontic appliance.

ADDITIONAL EXPERIENCE: Mr. Randolph has practical automotive experience working in a motorsports chassis fabrication facility (2001-2002) and functioning as a lead mechanic for a championship winning race team (1996-2000).

RESEARCH: Mr. Randolph has performed research in estimations of driver following distances. He has co-authored a technical article for the estimation of driver following distances, published in Collision Magazine, Vol 10, Issue 2, Spring 2016. Mr. Randolph has also assisted with comparison of the accuracy of aftermarket data acquisition systems.

PROFESSIONAL AFFILIATIONS: Society of Automotive Engineers (SAE), Pi Tau Sigma (International Mechanical Engineering Honor Society)

Peer-Reviewed Publications: Mr. Randolph has co-authored the following peer-reviewed publications:

- Rose, Nathan A., Carter, Neal, Kreisher, John, Randolph, Martin, Neale, William T.C., Danaher, David, “How Accurate are Witness Distance Estimates Given in Car Lengths?” *Collision: The International Compendium for Crash Research*, approved for publication, Spring 2016.

Technical Conferences, Trainings, and Seminars:

- “Vehicle Dynamics for Passenger Cars and Light Trucks”, Society of Automotive Engineers, Detroit, Michigan, August 10-12, 2016
- Motorcycle Safety Foundation® Basic RiderCourse , Aurora, Colorado, October 3-4, 2015
- *Essentials of PC-Crash* Webinar, MEA Forensic Engineers and Scientists, April 14-16, 2015
- “Vehicle Crash Reconstruction Methods”, Society of Automotive Engineers, Detroit, Michigan, December 17-19, 2014
- Bosch Crash Data Retrieval System - Technician Level I and II, Parker Police Department, Parker, CO, December 11-12, 2014