



Résumé of
DANA E. THORNTON, B.S.

Kineticorp™

Denver:
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EXPERIENCE: **Engineer** - Accident Reconstruction: Kineticorp, LLC, Denver, Colorado, August 2009 to Present.
 Engineering Intern - Accident Reconstruction: Kineticorp, LLC, Denver, Colorado.
 Engineering Intern - Wind Energy Consultation: Advanced Energy Systems, Denver, Colorado.

EDUCATION: **B.S. Mechanical Engineering - With Special Honors**, University of Colorado at Denver, 2009.

Mr. Thornton is currently pursuing a Master's degree in Mechanical Engineering at the University of Colorado at Denver, with a concentration in Numerical Analysis.

Metropolitan State College, Denver Colorado, 2004-2006. Recommended for and joined the Metropolitan State Honors Program in 2004.

AWARDS: **Outstanding Academic Achievement**, School of Engineering and Applied Science, University of Colorado at Denver, 2009.

 Outstanding Graduating Senior, Department of Mechanical Engineering, University of Colorado at Denver, 2009.

FORENSIC ENGINEERING: Throughout his education and his employment with Kineticorp, Mr. Thornton has gained experience in the following areas related to accident reconstruction:

- Mr. Thornton has investigated and reconstructed accidents involving motorcycles, passenger cars, buses and commercial vehicles including articulated truck and trailer combinations. Many of these accidents involved roadside barriers, varying terrain features and post-collision fires. He has also reconstructed several single-vehicle, loss-of-control accidents including rollover accidents.
- Mr. Thornton has conducted testing and evaluation of motorcycle dynamics, vehicle dynamics and motorcycle acoustics. This testing involved instrumentation of vehicles with the VBOX Data Acquisition System and analyzing the collected data.
- Mr. Thornton implements the knowledge obtained during his graduate coursework in Impact Mechanics. This area of study focuses on rigid body collisions as well as Planar Impact mechanics with an emphasis on vehicular collisions.
- Mr. Thornton currently employs the knowledge obtained during his undergraduate coursework in Physics to the reconstruction of vehicle accidents. This coursework included the fundamentals of Newtonian Mechanics, conservation of momentum and energy, and impact mechanics.
- Mr. Thornton has successfully completed graduate coursework in Buckling and Stability Analysis with an emphasis on vehicle stability. Additionally, Mr. Thornton has successfully completed graduate coursework in Advanced Dynamics, Methods of Engineering Analysis and Numerical Methods which focus on the development and stability of analytical solutions to engineering problems, as well as a specific focus on the programming of numerical schemes to solve such problems.

RESEARCH TOPICS: Mr. Thornton is currently working on research in the following areas:

- Mr. Thornton has conducted field testing in an effort to analyze the acoustic profile of various motorcycles.
- Mr. Thornton is currently working on research to empirically determine the friction properties of de-treaded passenger vehicle tires.
- Mr. Thornton is currently engaged in an independent study of Vehicle Stability Analysis.

PROFESSIONAL AFFILIATIONS: Society of Automotive Engineers (SAE), Tau Beta Pi – The Engineering Honor Society

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Engineer



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Technical Conferences, Training and Seminars:

- *Bosch Crash Data Retrieval (CDR) System[®] Technician Level 1 & Level 2 Course*, Kineticorp, Greenwood Village, CO, March 8, 2011.