



Résumé of  
**Alireza Hashemian, M.S.**  
**Kineticcorp™**

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#### **EDUCATION:**

M.S., Mechanical Engineering, University of Colorado at Denver, 2011(Graduated with Honors)  
B.S., Mechanical Engineering, University of Colorado at Denver, 2009 (Graduated with Honors)  
Computer Aided Drafting Certificate, Arapahoe Community College Littleton, Colorado, 2004

#### **EXPERIENCE:**

Forensic Animator, Department of Visualization, Kineticcorp, LLC, Denver, Colorado (October 2010 to Present)  
Web Designer/Developer and Graphist, Lilihan Oriental Rugs, Denver, Colorado (February 2007 to September 2010)  
Animator, The Design Firm, Denver, Colorado (June 2003 to September 2003)  
Animator, Tasvir Vijeh, Tehran, Iran (April 2000 to July 2002)  
Animator and Web Designer, Ideh Negar, Tehran, Iran (December 1999 to April 2000)

#### **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.  
William R. Simmons Scholarship Awards Fall 2008 and Fall 2009.  
Won the first prize for designing and developing a virtual tour for Peyam Network, Tehran-Iran, 2003.

#### **ACADEMIC RESEARCH AND PROJECTS:**

During his two years of graduate study, Mr. Hashemian has conducted research in the area of vehicle dynamics and stability. This research has included mathematical modeling of instabilities in articulated vehicles unstable due to mass distribution and analyzing the physics of vehicle rollover through mathematical modeling and examination of empirical data from rollovers. Mr. Hashemian has also performed research in the areas of heat transfer and thermal science including design and construction of an evaporative cooler while utilizing misting nozzles and high pressure pump to improve the efficiency of cooling. He also developed computer program to obtain temperature distribution for Finite 2D elements. Finally, Mr. Hashemian designed, built and programmed a robotic arm with five degree of freedom. The arm was controlled using a Basic Stamp micro controller chip.

#### **FORENSIC ENGINEERING AND VISUALIZATION:**

While working in Tehran, Iran, Mr. Hashemian produced animation for television Commercials using 3D Studio MAX and Adobe After Effects. These commercials were produced utilizing three-dimensional modeling, animation, rendering, lighting, to camera tracking and editing. As a Forensic Animator for Kineticcorp, Mr. Hashemian utilizes his skills in computer simulation, animation, photogrammetry and video analysis to investigate and analyze accidents.

#### **PROFESSIONAL AFFILIATIONS:**

American Society of Mechanical Engineers (ASME)  
Tau Beta Pi - The Engineering Honor Society