



Résumé of
James P. Marr, B.A., B.S.

Kineticcorp™

6070 Greenwood Plaza Blvd., Suite 200
Greenwood Village, Colorado 80111
Tel: 303.733.1888
Fax: 303.733.1902
jmarr@kineticcorp.com

EXPERIENCE:

Forensic Animator, Department of Visualization, Kineticcorp, LLC, Colorado, 2005 to Present
Manager, Animation Department, Fay Engineering Corp, Colorado, 2002 to 2005
Animation Director, CAT Designs, Inc., Colorado, 2001 to 2002

EDUCATION:

Bachelor of Arts, Art Institute of Colorado, Media Arts and Animation, 2001
Bachelor of Science, Saint Louis University, Business and Administration, 1996

VIDEOGRAPHY, PHOTOGRAPHY, VISIBILITY, AND VISUALIZATION: Mr. Marr has applied his expertise and continuing research in videography, photography, visualization, video analysis, photogrammetry, and lighting and visibility to investigate and analyze numerous vehicular accidents involving passenger cars, heavy trucks, motorcycles, bicycles and pedestrians. Mr. Marr's expertise and experience include the following:

- Performed hundreds of visibility studies, both nighttime and daytime, including vehicle lighting and visibility, pedestrian conspicuity and roadway obstructions
- Published peer-reviewed technical papers on video projection mapping, photogrammetry, video tracking, and lighting analysis
- Production of videography, photography, 3D animation, graphics and interactive media for trial, deposition, mediation and courtroom exhibits.
- Knowledge of video and still cameras, field monitors, and camera rigging for visibility studies
- Photogrammetric analysis of accident scenes, including data collection using scanners and total stations
- Video tracking, compositing, and 3D modelling software

RESEARCH: In the course of his professional work, Mr. Marr has conducted research in the following areas:

- Nighttime vehicle and pedestrian visibility
- Daytime vehicle and pedestrian visibility
- Video tracking and projection mapping
- Sun glare
- 3D visualization
- Photogrammetry

ADDITIONAL VISUALIZATION EXPERIENCE: In the course of his education and professional work, Mr. Marr has gained visualization experience in these areas:

- Visualization featured on TNT Cold Justice "Trajectory Ben Cooper Murder."
- Produced Visualization and 3D models for coal gasification energy companies
- Visualization for the Regional Transportation District, Denver, CO

PROFESSIONAL AFFILIATIONS: Society of Automotive Engineers (SAE), Professional Photographers of America (PPA)

James P. Marr, B.A, B.S.

Kineticcorp™

www.kineticcorp.com

6070 Greenwood Plaza Blvd., Suite 200

Greenwood Village, Colorado 80111

Tel: 303.733.1888

Fax: 303.733.1902

Technical Conferences and Seminars Attended

- *Fundamentals of Lighting Course*, Illuminating Engineering Society, Denver, CO, April-May, 2017
- *Forensic Analysis and Authentication of Digital Images*, National Center for Media Forensics, University of Colorado Denver, March, 2017
- *UAS Flight Safety Program*, Greenwood Village, CO, September 23, 2016
- *Online Training Course. PC-Crash*. November 16, 2016.
- *At Scene Traffic Collision Investigation (I)*, Accident Investigation & Reconstruction Specialists, Inc., Fountain, CO, May 18-22, 2015.
- “*Advanced Lighting Education – IES Seminar: Vision and Color*” IES, Denver, CO, February 5, 2015

Publications

- Neale, W.T.C., **Marr, James P.**, Hessel, David, “Nighttime Videographic Projection Mapping to Generate Photo-Realistic Simulation Environments”, Society of Automotive Engineers, Paper Number 2016-01-0415
- Neale, W.T.C., Hessel, David, **Marr, James P.**, “Evaluation of Photometric Data Files for Use in Headlamp Light Distribution, Detroit, MI, 2010,” Society of Automotive Engineers, Paper Number 2010-01-0292
- Neale, William T.C., **James Marr**, David Hessel, “3D Video Projection Mapping Photogrammetry of Physical Evidence through Video Tracking.” SAE Paper 2013-01-0788B-400. Detroit, MI. (2013).
- The Master Plan, by Jeff Townsend; Illustrations

Nighttime Visibility Testing

- Pedestrian visibility testing, San Mateo, CA, March 30, 2010
- Vehicle headlamp visibility, San Mateo, CA, March 30, 2010
- Nighttime motorcycle headlamp study, California, July 12, 2010
- Dynamic motorcycle swerve and obstacle avoidance testing, California, July 12, 2010
- Conspicuity tape visibility testing, Morrison, CO, July 31, 2014
- Pedestrian Visibility Study, San Francisco, CA, June 2, 2015
- Vehicle headlamp testing, Morrison, CO, August 27, 2015
- Emergency light conspicuity testing, Morrison, CO, September 22, 2015

Daytime Visibility Testing

- Vehicle visibility testing, Greenfield, IN, September 30, 2009
- Vehicle visibility testing, , Guadalupe County, NM, July 18, 2011
- Sun Glare visibility testing, Guadalupe County, NM, July 18, 2011
- Live vehicle testing, Redding CA, November 30, 2011

- Bicycle visibility testing, Aurora, CO, March 11, 2015
- Caution light conspicuity testing, Aurora, CO, March 11, 2015
- Live vehicle testing, Santa Fe, NM, January 28, 2016

- **Visibility Lighting Testing**

- Sunset rain testing, Greenwood Village, CO, July 11, 2011
- Sun Glare visibility testing, Guadalupe County, NM, July 18, 2011
- Sunlight illuminance testing, Alameda, CA, December 21, 2011
- Sun Glare testing, Redwood City, CA, January 18, 2011
- Bicycle Rider visibility testing, Littleton, CO, July 23, 2015

- **Visibility Weather Conditions Testing**

- Nighttime snow testing, Greenwood Village, CO, October 24, 2010
- Daytime rain testing, Greenwood Village, CO, May 11, 2011
- Nighttime rain testing, Lafayette, CO, June 12, 2011
- Sun Glare visibility testing, Guadalupe County, NM, July 18, 2011
- Sunlight illuminance testing, Alameda, CA, December 21, 2011
- Fog testing, Redwood City, CA, January 18, 2011
- Daytime snow testing, Greenwood Village, CO, January 11, 2011
- Daytime snow testing, Greenwood Village, CO, February 25, 2015