



Résumé of
James P. Marr, B.A., B.S.

Kineticcorp™

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EXPERIENCE:

Senior 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 extensive research in videography, visualization, video analysis, and photogrammetry 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
- Certified by the Institutional Review Board for Human Subjects Protection, Virginia Tech
- 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)
Law Enforcement & Emergency Services Video Association International, Inc. (LEVA)
Professional Photographers of America (PPA)
Master Photographers International (MPI)

Audio Engineering Society (AES)

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Technical Conferences, Seminars and Courses Attended

- “General Motors & Walbridge: High-Res Imagery and 3D Data Accelerated Engineering and Facilities Projects, March, 2021
- “Forensic Video Analysis & The Law” Law Enforcement & Emergency Services Video Association (LEVA) International Inc., Las Vegas Metropolitan Police Department. February 2019
- “Forensic Video Analysis Workflow Training” Input Ace, CA, December 2018
- “Video Examinations for the Police Investigator” Boulder Police Department, Boulder, CO, July 2018
- “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

- **Marr, J.**, Neale, W., Beier, S., Hashemian, A., McKelvey, N., “Calibrating Digital Imagery in Limited Time Conditions of Dawn and Dusk and Twilight” SAE Paper 2021-01-0855, Detroit, MI. (2021).
- Neale, W., **Marr, J.**, Hessel D., Gillihan, R., “Video Based Simulation of Daytime and Nighttime Rain Affecting Driver Visibility”, SAE Paper 2021-01-0854, Detroit, MI. (2021).
- Swaroop Dinakar, Jeffrey W. Muttart, Jeffrey Suway, **Jim Marr**, Darlene Edeward, Alexander Enes, “Driver Response Times to Side Road Path Intrusions from SHRP-2 Naturalistic Database” Human Factors and Ergonomics Society, 2020
- Neale, W., **Marr, J.**, McKelvey, N., Kuzel, J., “Nighttime Visibility in Moonlight Conditions.” SAE Technical Paper 2019-01-0141, 2019, doi:10.4271/2019-01-0141
- Swaroop Dinakar, Jeffrey W. Muttart, Teena Garrison, Suntasy Gernhard, **Jim Marr**, “Influence of Taillight Brightness on the Ability to Recognize Closing Speed, Closing Distance, and Closing vs. Separating” Human Factors and Ergonomics Society, September 27, 2018, Volume: 62 issue: 1
- 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).