KATHLEEN PITTMAN

Specialized Professional Competence

Forensic visualization. Photo/video analysis, photogrammetry, camera matching, and reverse camera projection. 3-Dimensional (3D) analysis and reconstruction. 3D animation incorporating data from simulations, laser scanning, aerial photogrammetry, video analysis, calculations, and motion capture. 3D modeling, lighting, and rendering. Production of demonstrative exhibits.

Background and Professional Honors

B.S. (Media Arts and Animation), Art Institute of Philadelphia
P.S.M. (Forensic Science), Arizona State University

Forensic Visualization Specialist,
Talas Engineering, Inc.
Visual Communication Manager,
Exponent, Inc. Menlo Park, CA
Multimedia Supervisor,
Exponent, Inc. Menlo Park, CA
Senior Multimedia Artist,
Exponent, Inc. Phoenix, AZ
Multimedia Artist,
Exponent, Inc. Natick, MA
Multimedia Technician,
Exponent, Inc. Philadelphia, PA

Professional Activities & Memberships

Member, International Association for Identification (IAI)
Member, Law Enforcement and Emergency Services Video Association International (LEVA)
Member, Association for Computing Machinery's Special Interest Group on Computer Graphics and Interactive Techniques (SIGGRAPH)
Member, Society of Automotive Engineers (SAE International)

Selected Publications and Presentations

"A Method for Lens Distortion Correction of Algorithmically Altered Images," SAE Technical Paper 2025-01-8680, SAE International 2025 World Congress, Detroit, Michigan, April 2025 (with E. Mockensturm, T. Buckman, and K. White).

"Now You See It: Photogrammetry for Analysis and Visualization," Exponent Live Webinar, Washington Defense Trial Lawyers, 2021.

"Combining 3D Tools: Laser Scanning and Photogrammetry for Accident Reconstruction and Biomechanical Analysis" Presentation, SPAR International 3D Measurement and Imaging Conference (Houston, TX) 2015.

"Using 3D Techniques for Analysis and Demonstration," Presentation, Defense Research Institute Product Liability Conference (San Diego, CA) 2011.