DAVID W. RIDDER, B.F.A.



EDUCATION:

Bachelor of Fine Arts, George Fox University

EXPERIENCE:

Visualization Manager, Knott Laboratory, LLC, Centennial, CO, January 2025 to present
Forensic Animator, Knott Laboratory, LLC, Centennial, CO, February 2022 to December 2024
Freelance Modeling and Technical Art – 2016 to present

FORENSIC ANIMATION & ACCIDENT RECONSTRUCTION:

Mr. Ridder joined the Knott Laboratory Forensic Animation team in February of 2022. He assists in creating scientifically based and accurate visualizations and graphics for a multitude of cases including vehicle accident reconstruction, workplace accidents, shooting cases, and many others. Mr. Ridder works with engineers to create accident reconstructions using photogrammetry, matchmoving, point clouds, 3D digital modeling, object, people, and vehicle tracking, and more. He keeps up to date with new technologies and software to help Knott Laboratory stay on the cutting edge when it comes to visualizing these accidents and events.

Mr. Ridder's experience and expertise include the areas of:
Modeling, texturing, animation in 3D computer generation software
Video and image compositing
Registering and working with LiDAR scan data
Photogrammetry and photo scanning
Matchmoving and camera mapping
Photo-modeling from photographs and videos
Motion capture and retargeting
Photography and cinematography
Developing 3D Pipelines

Mr. Ridder has extensive knowledge in the following software products:
Blender 3D
SynthEyes
Affinity Suite
FFMPEG
PhotoModeler
CloudCompare
Adobe Substance Painter
Adobe Photoshop
Adobe After Effects
Adobe Premiere
DaVinci Resolve
Unity
Unreal Engine

PUBLICATIONS

1. Henry V. Mowry, P.E., DFE, and David W. Ridder, "The Importance of Human Perception in Incident Reconstruction and Potential for Misleading Interactive Reconstructions" Journal of the National Academy of Forensic Engineers. (June 2026).

TECHNICAL CONFERENCES AND SEMINARS

1. "The Importance of Human Perception in Incident Reconstruction and the Potential for Misleading Interactive Reconstructions" Speaker. National Academy of Forensic Engineers Conference. Ottawa, ON, Canada, 12 July 2025.