

Adnan Poshtkouhian

M.ENG., M.Sc., B.Sc. MECHANICAL ENGINEERING

EXPERT QUALIFICATIONS SUMMARY

3D COLLISION RECONSTRUCTION

- Impulse-Restitution impact modeling
- Kudlich-Slibar impact modeling
- Trajectory modeling
- ESP (Electronic Stability Program) modeling

MOTORCYCLE COLLISION RECONSTRUCTION AND SIMULATION

PEDESTRIAN ACCIDENT RECONSTRUCTION

BICYCLE COLLISION RECONSTRUCTION

- Multibody pedestrian, motorcycle, bicycle, and occupant models with specification of geometry, mass and moments of inertia, stiffness coefficients, and coefficient of friction

TRACTOR-TRAILER ACCIDENT RECONSTRUCTION

- Trailer modeling with steered, unsteered, and semi-trailers

3D MAPPING OF ACCIDENT SCENE

- Point cloud mapping
- Aerial photogrammetry mapping
- Total station mapping

3D MODELING

3D ANIMATIONS WITH VOLUMETRIC AND ENVIRONMENT LIGHTING EFFECTS

IMAGE AND VIDEO PROCESSING

EVENT DATA RECORDER (EDR) IMAGING AND ANALYSIS

COMPUTATIONAL FLUID DYNAMICS (CFD)

THERMODYNAMICS

FINITE ELEMENT ANALYSIS (FEA)

3D VIRTUAL CRASH SIMULATIONS

3D PC CRASH SIMULATIONS

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