

Collision
Reconstruction

Personal Injury

Electrical

Mechanical

Metallurgical

Civil & Structural

Fire & Explosion

Structural
Reconstruction

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EXECUTIVE SUMMARY

For over 30 years, Taian has conducted research and analysis of vehicles to better understand areas of metal fatigue and stress for the optimization of materials to improve vehicle crashworthiness. This experience provides the ideal background for his work in collision reconstruction where he specializes in computer modeling of collision scenarios.

AREAS OF SPECIALIZED EXPERTISE

- *Vehicle collision reconstruction*
- *PC Crash collision reconstruction software*
- *PhotoModeler photogrammetry software*
- *Crash Data Retrieval and Analysis*
- *3D CAD mechanical design and application*
- *Material failure testing and analysis*
- *Vehicle component crashworthiness, strength and fatigue testing*
- *Automobile structure stress-strain testing, experimental model testing and analysis*
- *Mechanical component modeling, finite element analysis and validation*
- *Vehicle crash testing, software simulation and validation*

EDUCATION

- B.Eng. (1984) Tianjin University, China
- M.Eng., Mechanics (1991) Henan University of Science & Technology, China
- Ph.D., Mechanical Engineering (2006) University of Bolton, England