



### **Mukul K. Verma, PhD - Consultant**

Mukul Verma is a well-recognized expert in vehicle structures and in automobile safety with many years of experience in engineering research, product design and program management. He holds a Ph.D. in Mechanical Engineering and Applied Mechanics from the University of Michigan (Ann Arbor). His early work included investigations of motorcycle dynamics and of tractor trailer rollovers. Later, he worked at General Motors in the Research Laboratories and then in the Product Development organizations, progressing through several positions to Technical Fellow with responsibility for Vehicle Structures and Safety. He also led R&D projects outside GM for advanced technology evaluation and implementation in hydrogen fuel cells, telematics systems, pre-crash sensing and 'smart' systems for vehicle safety. One of his contributions has been to serve as chairman of an industry-wide experts group that developed voluntary standards for improving crash compatibility between passenger cars and SUVs. He is currently a Professor (adjunct) of Mechatronics at the Lawrence Technological University and has developed and taught graduate level course in 'intelligent tires and reconfigurable vehicles'. He has 25+ research publications in international journals and at conferences and has served as organizer, chairman and invited speaker on numerous occasions.

#### **Areas of Specialty**

- *Vehicle Structures- design, analysis and testing*
- *Automotive safety and crashworthiness*
- *Statistical trend analyses and product strategy*
- *Emerging technology implementation – hybrid and electric vehicles, telematics, pre-crash systems*
- *Mechatronics in ground vehicle design*

#### **Education**

Ph.D., Applied Mechanics & Mechanical Engineering, University of Michigan

M.S., Aeronautical Engineering, Indian Institute of Science, Bangalore

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