DESIGN RESEARCH ENGINEERING
46475 Desoto Court
Novi, Michigan 48377
Tel: (248) 668 - 3450
Fax: (248) 668 - 3460

TERRY MCNAMARA, M.S., P.E.

Professional Specialization

Automotive engineering; design and testing of motor vehicle systems. Design analysis and experimental evaluation of the performance of passenger vehicle systems and sub-systems. Failure and safety analysis of mechanical systems. Including automotive sub-systems and components, body structures, body closures, seating systems and chassis systems. Computer design tools, including NASTRAN, ADAMS, MADYMO, PDGS and Ideas/MS. Vehicle crashworthiness evaluation and testing. Accident analysis and reconstruction, including computer simulation and photogrammetry. Statistical evaluation of vehicle and component field performance. Digitization and CAD rendering of accident scenes, vehicles, and vehicle components.

Professional Background

B.S. (Mechanical Engineering), Michigan Technological University

M.S. (Mechanical Engineering/Biomechanics), Wayne State University, Michigan

Traffic Accident Reconstruction, Northwestern University Traffic Institute, Michigan

Project Engineer,
    Design Research Engineering

Product Design Engineer, Transit Program
    Ford Motor Company

Product Design Engineer, Electric Vehicle Program
    Ford Motor Company

CAE Engineer,
    Engineering Technology Associates

Registered Professional Mechanical Engineer, Michigan #43861

Member, Society of Automotive Engineers

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