



Thomas F. Patterson

Professional Specialization

Automotive engineering, design and assembly related to vehicle structure, crashworthiness, regulatory compliance and certification, standards and industry history and progress. Failure and safety analysis of body components and closure mechanisms for light trucks, buses, MPV's and passenger vehicles. Analysis of automotive materials and assembly methods including welding, adhesives, noise damping and structural reinforcements for both frame/body and unitized vehicles. Further expertise in seating and interior trim, padding and body sealing, and the analysis of vehicle fire cause and origin.

Professional Background

B.S. (Mechanical Engineering), Lawrence Technological University, 1973

Additional Engineering Courses: (Accident Reconstruction), Northwestern University; (Computer Accident Reconstruction), Ohio State University; (Biomechanics and Human Tolerance), Ford Automotive Safety Office; (Vehicle Crash Mechanics), University of Michigan; (Introduction to Computer Architecture), University of Michigan; (Brake Design and Safety), Society of Automotive Engineers; (Automotive Glass and Glazing Design), Society of Automotive Engineers; (Automotive Welding Fundamentals), American Welding Society

Senior Engineering Consultant

Design Research Engineering
2007 – present

Design Analysis Engineer, Advanced Vehicle Technology

Ford Motor Company
1982 – 2007

Program Concepts Specialist, Product Development

Ford Motor Company
1980 – 1981

Supervisor, Body Carline Development

Ford Motor Company
1978 – 1980

Supervisor, Light Truck Body Development

Ford Motor Company
1977 – 1978

Principle Engineer, Body Wiring and Circuitry

Ford Motor Company
1976 – 1977

Body and Electrical Resident Engineer, Mahwah Assembly Plant

Ford Motor Company
1974 – 1976

Product Design Engineer, General Parts Division

Ford Motor Company
1969 – 1974

Research Technician, General Parts Division

Ford Motor Company
1966-1969

Research Technician, Experimental Foundry

General Motors Corporation
1966

Professional Memberships

Society of Automotive Engineers (1986)
American Association for the Advancement of Science (1990)
American Welding Society (1997)

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