



**D E S I G N
R E S E A R C H
E N G I N E E R I N G**

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Barry M. Hare, M.S.
Senior Engineering Consultant

PROFESSIONAL SPECIALIZATION

Automotive product evaluation of field safety and performance, including but not limited to, crashworthiness systems, airbags, seat belts, seats, doors, and pre-collision systems.

EDUCATION

M.S., General Engineering, Applied Mechanics Emphasis, University of Illinois, Champaign, IL
B.S., General Engineering, University of Illinois, Champaign, IL

PROFESSIONAL MEMBERSHIPS

Member, Society of Automotive Engineers (SAE)
Member (1997-2024), Association for the Advancement of Automotive Medicine (AAAM)

CONTINUING EDUCATION

Northwestern University - Traffic Accident Reconstruction I
University of Wisconsin, Madison WI - The Role of Warnings and Instructions
AAAM - Biomechanics of Impact Trauma
AAAM - Advanced Air Bag Technology in Frontal and Side Impacts Conference
SAE - Injury, Anatomy, Biomechanics and Federal Regulation
SAE - Sensor Design for Automobile Airbag Systems
SAE - The Role of the Seat in Rear Crash Safety
SAE - Side Impact Occupant Safety and Computer-Aided Engineering (CAE)
SAE - Applying Automotive Event Data Recorder (EDR) Data to Traffic Crash Reconstruction
SAE (IRCOBI/Stapp) - Child Occupant Protection II
SAE - Airbag Design and Performance TOPTEC (and presenter)
Engineering Dynamics Corporation: EDC Reconstruction
National Highway Traffic Safety Administration - Child Passenger Safety Training Program
4th International Child Passenger Safety Conference, Arlington, TX (and presenter)
43rd Stapp Car Crash Conference, San Diego CA
44th Stapp Car Crash Conference, Atlanta GA

PROFESSIONAL EXPERIENCE

Design Research Engineering - Senior Engineering Consultant	Feb 2026 – Present
Toyota Motor Sales USA Inc. and Toyota Motor North America	Jul 2006 – Oct 2024
Manager - Technical Analysis Group, National Design & Technical Analysis	
Provided technical analysis regarding safety and quality issues for Toyota in North America.	

Barry M. Hare
Senior Engineering Consultant

PROFESSIONAL EXPERIENCE (CONTINUED)

Nissan Companies, Gardena, CA

Dec 1988 – Oct 2006

Nissan North America, Inc.

2001 – 2006

Manager/Senior Manager - Product Safety/Engineering Analysis Department

Provided technical analysis regarding crashworthiness and safety issues for Nissan.

Nissan North America, Inc. & Nissan Motor Corporation in USA

1988 – 2000

Principal Engineer/Staff Engineer/Engineering Specialist/Project Engineer - Engineering Analysis

Provided technical analysis regarding crashworthiness and safety issues for Nissan.

General Motors Corporation, Warren, MI

Sep 1985 – Nov 1988

Project Engineer - Current Product Engineering,

Crashworthiness evaluation: Provided technical evaluation for future vehicle designs and analysis of current and past production. Vehicle field performance relating to vehicle crashworthiness.

Crashworthiness analytical tools: Analyzed capabilities of lumped mass models and finite element techniques for determining instrument panel characteristics.

Construction Engineering Research Laboratory, Champaign, IL

Jan 1984 – Aug 1985

Research Assistant

Analyzed non-destructive evaluation methods and the effects of inspections for steel structures.

PUBLICATIONS AND PRESENTATIONS

Lewis, L., Hare, B., Clyde, H., and Landis, R., "Vehicle Control History: Data from Driver Input and Pre-Collision System Activation Events on Toyota Vehicles," Society of Automotive Engineers, SAE Technical Paper 2019-01-5094.

Webster, G., Clyde, H., Hare, B., Jakstis, M., Landis, R., Lewis, L., and Buetzer, R., "Accuracy of Recorded Driver Inputs in Toyota Part 563 EDR," Society of Automotive Engineers, SAE Technical Paper 2014-01-0505.

Brown, R., Lewis, L., Hare, B., Jakstis, M., Landis, R., Clyde, H., and Buetzer, R., "Confirmation of Toyota EDR Pre-crash Data" Society of Automotive Engineers, SAE Technical Paper 2012-01-0998.

Jakstis, M., Clyde, H., Hare, B., Landis, R., Lewis, L., "Marks on Seat Belt Systems with Pretensioners and Force Limiters in Airbag Deployment Crashes," Society of Automotive Engineers, SAE Technical Paper 2009-01-1252.

Hughes, R., Hare, B., and Lewis, L., "Occupant Motion and Excursion During Rollover Crashes," presentation at International Body Engineering Symposium (SAE), September 21-22, 2004.

Moffatt, E., Hare, B., Hughes, R., Lewis, L., Iiyama, H., Curzon, A., and Cooper, E., "Head Excursion of Restrained Human Volunteers and Hybrid III Dummies in Steady State Rollover Tests," 47th Annual Proceedings of the Association for the Advancement of Automotive Medicine, Lisbon, Portugal, September 22-24, 2003.

Hare, B., Lewis, L., "Considerations and Analysis of Restraint Performance in Rollover Crashes," presentation at Passenger Vehicle Rollover TOPTEC Conference, April 23, 2002.

Hare, B., Lewis, L., Hughes, R., Ishikawa, Y., K., Iwasaki, K., Tsukaguchi, K., and Doi, N., "Analysis of Rollover Restraint Performance With and Without Seat Belt Pretensioner at Vehicle Trip," Society of Automotive Engineers, 2002-01-0941.

Hughes, R., Lewis, L., Hare B., Ishikawa, Y., Iwasaki, K., Tsukaguchi, K., and N. Doi (2002) "A Dynamic Test Procedure for Evaluation of Tripped Rollover Crashes," Society of Automotive Engineers, SAE Technical Paper 2002-01-0693.