



**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**

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

AMY BUMBAUGH, M.S.

Professional Specialization

Automotive engineering; design analysis and evaluation of performance of passenger vehicle door systems and sub-systems during side impact. Crash model development and correlation using MADYMO computer design tools. Evaluation of vehicle emissions test equipment. Vehicle fuel economy and in-use emissions analysis. 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 State University
M.S. (Mechanical Engineering/Biomechanics), Wayne State University
Traffic Accident Reconstruction, Northwestern University Traffic Institute
Engineering Dynamics HVE Simulations Forum

Project Engineer,

Design Research Engineering

Technical Standards Engineer,

Ford Motor Co.

Member, Society of Automotive Engineers