



**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. Accident analysis and reconstruction, including computer simulation using HVE software and photogrammetry analysis using PhotoModeler software. Statistical evaluation of vehicle and component field performance. Digitization and rendering of accident sites, vehicles, and vehicle components using AutoCad, Rhino and Polyworks software.

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
PhotoModeler Collision Investigation

Senior Project Engineer

Design Research Engineering
2012 to present

Project Engineer

Design Research Engineering
1996 to 2011

Technical Standards Engineer

Ford Motor Company
1993 - 1996

Cum Laude, Michigan State University
Member, Society of Automotive Engineers