

**Jeffrey C. Brown, P.E.**  
**Senior Engineer**

**Professional Profile**

Mr. Jeff Brown is a Senior Engineer in Exponent's Vehicle Engineering practice. He has 8 years of technical experience in designing and testing of suspension and brake systems for passenger cars, light trucks, and off-road recreational vehicles. His areas of research include: automotive and light truck braking systems, occupant restraint systems, event data recorders, and has developed unique measuring techniques to aid accident reconstruction. Mr. Brown typically evaluates complex electrical and mechanical issues and simplifies his findings for ease of understanding by a non-technical audience.

Mr. Brown developed, evaluated, and integrated into manufacturing several automotive suspension components for a major automotive supplier. He is knowledgeable of American, Canadian, Japanese, and European brake test methods and regulations. His research includes developing automotive braking standards (SAE J2624 and others) and in writing software to distill large amounts of raw data down to easy to understand reports.

Prior to joining Exponent, Mr. Brown was a Site Manager of Link-West, Inc., an automotive testing organization, and a Development Engineer at Arvin Ride Control Products.

**Academic Credentials and Professional Honors**

B.S., Electrical Engineering, University of Michigan-Dearborn, 1995  
B.S., Mechanical Engineering, Lawrence Technological University, 1993

Tau Beta Pi: Engineering Honorary Society  
Pi Tau Sigma: Mechanical Engineering Honorary Society  
Eta Kappa Nu: Electrical Engineering Honorary Society

SAE Arch T. Colwell Merit Award, 2006

**Licenses and Registrations**

Registered Professional Mechanical Engineer, Arizona, #49969

## **Patents**

Patent No. 6163256: Brake Light Apparatus, issued July 17, 2007.

## **Publications**

Brown J, Raasch C, Davee D. Comparison of restraint system marks with proper and improper belt usage. SAE 2009-01-1243, 2009.

Brown J, Hansen D, Grimm M. Relationship between anti-lock tire mark length and speed change. SAE 2007-01-0723, 2007.

Davee D, Raasch C, Brown J. Case study of clothing fabric transfer to seat belt webbing under accidental forces. SAE 2006-01-09-04, 2006.

Newberry W, Lai W, Carhart M, Richards D, Brown J, Raasch C. Modeling the effects of seat belt pretensioners on occupant kinematics during rollover. SAE 2006-01-0246 and SAE 2006 Transactions Journal of Passenger Cars, 2006.

## **Professional Affiliations**

- Society of Automotive Engineers (Member: Road Test Standards Committee)