

PETER R. THOM AND ASSOCIATES INC.
AUTOMOTIVE CONSULTING AND ENGINEERING
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MICHELLE TSAI, ASSOCIATE

EXPERIENCE

- Peter R. Thom and Associates Inc., Biomechanical Analysis, 2015 - Present
- Consumer Reports, Colchester, CT, Automotive and Child Safety Engineer, 2008 – Present. Developed and publicly launched the new Consumer Reports crash test protocol and rating systems for evaluating child safety restraints. Conducted fit to vehicle, ease of use, and crash testing all currently available child restraints. Collaborated with the National Highway Traffic Safety Administration, the Insurance Institute for Highway Safety, and Safe Kids USA on future rule making and research efforts for automotive and child safety.
- Stryker Orthopaedics, Mahwah, NJ, Quality Engineer – Product Surveillance, 2007 – 2008. Performed failure analyses on acetabular cups and liners, femoral stems, and surgical instruments returned from the field leading to the identification of root cause and implementation of corrective and preventative actions.
- Ford Motor Company, Dearborn, MI, Crash Development Engineer, 1999 – 2007. Coordinated and executed side impact crash testing certification on the 2005 – 2008 model years Ford Freestyle and Five Hundred. Ensured precise biomechanical positioning of Anthropomorphic Test Dummies during test set up. Evaluated occupant kinematics and biomechanical injury tolerance through video and data analysis. First in Ford Motor Company to evaluate occupant injury for rear seated occupants in a frontal impact crash
- Prince of Wales Hospital, Sydney, Australia, Orthopedic Research Assistant, 1998. Lead research project for Dupuy Orthopedic to determine amount of stress shielding caused by new hip implant design in comparison to existing products.

EDUCATION

- Wayne State University, Detroit, MI, M.S. Biomedical Engineering, 2003.
- University of Michigan, Ann Arbor, MI, B. S. Mechanical Engineering, 1999.

Michelle Tsai