

Micky Gilbert, P.E.
Gilbert Engineering LLC
16254 W 77th Lane
Arvada CO 80007

Education

Bachelor of Science degree in Mechanical Engineering, Colorado State University, 1993
Worked with Professional Engineers and Accident Reconstructionists since 1993, studying vehicle and accident dynamics

Employment

Race Car Mechanic at Skip Barber Racing, 1991-1994
Mechanical Engineer, James L. Gilbert and Associates, 1993–1997
Mechanical Engineer, Gilbert Engineering LLC, 1998-present
Associate Engineering Consultant, Professional Investigative Engineers, 2001-present

Professional Experience

- **Reconstruction/Analysis of Accidents**
- **Vehicle Dynamics Testing of Race Cars and Passenger Cars**
- **Automotive Computer Analysis and Simulation**
- **Analysis of Auto Manufacturer Documents and Tests**
- **Design Analysis of Vehicle Structures and Systems**
- **Patent Design Work of Anti-Rollover Device and Rollover Steering System**
- **Car-to-Car Crash Testing**
- **Testing and Design of Modified Passenger Vehicles**
- **Teaching courses on accident reconstruction and vehicle dynamics to Police Officers, Engineers, Insurance Adjusters and Attorneys**
- **Design and rollover crash testing of automated SUV systems (with and without tread separation)**

Related Vehicle Dynamics/Auto Racing Experience

1991-1996	Skip Barber Formula 2000 and Race Karts
1996	National Champion, Skip Barber Formula 2000 Midwest series
1997	2 nd place, Superkarts 250cc National Championship
1997-present	BMW School Instructor, Teen Survival Instructor
1999-2000	Test Driver for Hoosier Racing Tires
1999-2000	Chief driving instructor of Pro-One Motorsports academy
1999	SCCA National Champion – Formula Mazda, Central Division
2000	Third consecutive podium – SCCA Valvoline Runoffs – Formula Mazda
2005	Star Mazda Pro Series – Expert Champion
2006	Obtained Indy Racing League license and drove in first Indy Pro race
2007-2008	Firestone Indy Lights Series driver

Professional Affiliations

Colorado Professional Engineer, Registration No. 35682
Accreditation Commission for Traffic Accident Recon. (ACTAR), Reg. No. 1240 (2001-2006)
Society of Automotive Engineers (SAE)
Society of Accident Reconstructionists (SOAR)
American Society for Testing and Materials (ASTM)
American Society of Mechanical Engineers (ASME)
Accident Reconstruction Communications Network (ARC Network) – No. ARC0827
National Association of Professional Accident Reconstruction Specialists (NAPARS) – No. 26114
Canadian Association of Road Safety Professionals (CARSP)

Publications/Patents

- Micky Gilbert, Jim Gilbert, "Engineering Principles in Vehicle Rollover Litigation" in Crashworthiness Litigation, published by West Group, 1998
- Micky Gilbert, "Analysis of Toyota LAR Testing", NHTSA Docket 2000-8298, No. 4
- "Method and Apparatus for Reducing Vehicle Rollover", Micky Gilbert, United States Patent Number 6,170,594, January 9, 2001
- Micky Gilbert, "Prevention of On-Road, Untripped Rollover by use of an Anti-Rollover Device", 2000-01-2666, presented to Society of Automotive Engineers, IBEC Conference, 10/00
- Micky Gilbert, "Reconstruction of SUV Untripped Rollovers", The Investigative Engineer, 7/02
- Micky Gilbert, Michael Kaplan, David Bilek, Steve Kaplan, David Vellos, "An Examination of Rim Gouging and Its Relation to On-Road Vehicle Rollover", The SOARce, Spring 2004
- Micky Gilbert, "Effects of Tire Shoulder Wear on Vehicle Rollover Limit Testing", SAE #2003-01-2865, JSAE #20037145, presented in Tokyo, Japan on 10/28/03
- Gilbert Engineering, LLC comments to Rollover Docket NHTSA-2001-9663-79
- "Rotation Limiter", Micky Gilbert, John Olmstead, United States Patent Number 7,134,357, November 14, 2006
- Micky G. Gilbert, John Olmstead, Erich Woessner, Tom Mueller, "Effect of Yaw Control on SUV Rollover", The SOARce, Autumn 2004
- Renfroe, D., Roberts, A., Gilbert, M., "Vehicle Rollover Maximum Limits", International Journal of Vehicle Design, 2004
- Micky G. Gilbert, John Olmstead, Erich Woessner, Tom Mueller, "Wet Pavement Handling Tests", The SOARce, Autumn 2005
- Micky G. Gilbert, John Olmstead, Erich Woessner, Tom Mueller, "Rollover Testing: Analysis of Steer Input Timing", SAE Paper Number 2006-01-0801 – presented at 2006 SAE World Congress (4/6/06)
- Gilbert Engineering LLC, "1991 Ford Explorer XLT 4x2: Automated Untripped Rollover Test", ARC-CSI Crash Conference 2006 also Published in Summer 2006 SOARce, also Presented at International Traffic Medicine Association conference Melbourne, Australia 10/17/06
- Gilbert Engineering LLC, Rollover Crash Test of 1997 Toyota 4Runner SR5 4x2, ARC-CSI Crash Conference 2006
- Micky Gilbert, Tom Mueller, "2001 Ford E-350 XLT Super Duty Vehicle Dynamic Performance Testing" The SOARce, Winter 2007
- Wilson, L.A., Gilbert, M., Godrick, D., "Reconstruction and Analysis of Steering-induced, On-road, Untripped SUV Rollover Tests" Collision, Spring 2007
- Wilson, L.A., Gilbert, M., Godrick, D., "Reconstruction and Analysis of Steering-induced, On-road, Untripped SUV Rollover Tests (Part 2)" Collision, Winter 2007
- Micky Gilbert, P.E. and Daniel A. Godrick, "Vehicle Dynamic Performance Testing 2002 Volvo S80 T6," The SOARce, Winter 2008
- Michael Gilbert, Daniel Godrick, Richard Klein, "The Effect of Longitudinal Center of Gravity Position On the Sway Stability of a Small Cargo Trailer", IMECE2008-66022 – presented at 2008 ASME International Mechanical Engineering Congress and Exposition
- M. Gilbert, D. Yanda, T. Mueller, "Dynamic testing of an SUV with Tire Tread Separation", Canadian Multidisciplinary Road Safety Conference XIX – presented in Saskatoon, Saskatchewan at CMRSC, CCMSR Conference 6/8/09
- S. Andrews, M. Partain, D. Renfroe, M. Gilbert, "A Comparison of Computer Modeling to Actual Data and Video of a Staged Rollover Collision", 21st International Technical Conference on the Enhanced Safety of Vehicles 6/09
- M. Gilbert, B. Stolz, "Pre-Rollover Vehicle Dynamics of SUVs in Untripped Rollover Tests", 20th Canadian Multidisciplinary Road Safety Conference, June 2010
- M. Gilbert, T. Mueller, J. Nirvelli, "The Effect of Tread-Separation on Vehicle Controllability", Hazard Information Foundation, Inc (HIFI) Tire Tech Conference, 8/10
- M. Gilbert, T. Mueller, J. Nirvelli, "Forensic Interpretation of Driver Countersteer", 22nd Canadian Multidisciplinary Road Safety Conference, Banff, Alberta, June 10-13, 2012
- Desmoulin GT, Rabinoff, Stolz B and Gilbert M, "A Biomechanical Method for Reconstruction of Tumbling Trampoline-Associated Cervical Spine Injuries Using Human and Anthropometric Test Dummy Data, Journal of Forensic Biomechanic, Volume 5 • Issue 1 • 101, April 2014
- M. Gilbert, B. Stolz "Effect of Oversized Wheels and Tires on SUV Roll Stability", 24th Canadian Multidisciplinary Road Safety Conference, Vancouver, Canada June 2-4, 2014