

M-CRASH group LLC

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Timothy D. Brown

EXPERIENCE

- 1999-Present* Michigan State Police – 2nd District Headquarters/Northville, Michigan
Crash Reconstructionist
- Speed Analysis
 - Vector Analysis
 - Evidence identification & interpretation
 - Causation Factors
 - Crush profile interpretation
 - Lamp examination
 - Restraint System use and application
 - Tire examination, design and tread
 - Vehicle “black box” downloads and interpretation
 - Heavy Truck Crash Analysis
 - Motorcycle Crash Investigation
 - Pedestrian/Bicycle Crash Investigation
 - Braking efficiency, load effects
- 1987 – 1999* Michigan State Police – Southeast Michigan
At-Scene Crash Investigator
- Scene examination, evidence identification
 - Measuring of scene data, road evidence, vehicles, etc.
 - Photographing scene
 - Basic Speed determinations (Slide to Stop, etc.)
 - Human Factors
- 1986 – 1987* Michigan State Police – Southeast Michigan
Road Trooper
- Basic Accident Investigation and reporting
 - General traffic patrol and enforcement
 - Criminal Investigation
- 1982 – 1986* New Baltimore Police Department – New Baltimore, Michigan
Patrolman
- Traffic enforcement
 - Criminal investigation
 - Basic crash reporting
- 1979 – 1982* Clay Township Police Department – Clay Township, Michigan
Patrolman
- Traffic enforcement
 - Criminal investigation
 - Basic crash reporting
- 1978 – 1979* Ira Township Police Department – Fair Haven, Michigan

Michigan Crash Reconstruction and Automotive Specialist group
Providing expert services with pride and integrity.



Patrolman

- Traffic enforcement
- Criminal investigation
- Basic crash reporting

EXPERT TESTIMONY

6/2000	14A District Court of Washtenaw County/Preliminary Examination Negligent Homicide - Status: <i>Bound Over</i>
8/2000	52-3 District Court of Oakland County (Rochester)/Preliminary Exam Negligent Homicide - Status: <i>Bound Over</i>
1/2001	22 nd Judicial Circuit Court of Washtenaw Co./Trial Negligent Homicide - Status: <i>Guilty (Bench Trial)</i>
3/2001	3 rd Judicial Circuit Court of Wayne Co./Trial Manslaughter/2 Counts - Status: <i>Guilty (Jury Trial)</i>
4/2001	36 th District Court of Wayne Co./Preliminary Exam O.U.I.L. Causing Death - Status: <i>Bound Over</i>
11/2001	36 th District Court of Wayne Co./Preliminary Exam O.U.I.L. Causing Death - Status: <i>Bound</i>
11/2001	Grosse Pointe Woods Municipal Court/Preliminary Exam 2 nd Degree Murder (Vehicular) - Status: <i>Bound Over</i>
12/2001	36 th District Court of Wayne County/Preliminary Exam Manslaughter - Status: <i>Bound Over</i>
3/2002	36 th District Court of Wayne County/Preliminary Exam Manslaughter - Status: <i>Bound Over</i>
4/2002	36 th District Court of Wayne County/Preliminary Exam O.U.I.L. Causing Death - Status: <i>Bound</i>
7/2002	36 th District Court of Wayne County/Preliminary Exam Manslaughter - Status: <i>Bound Over</i>
8/2002	3 rd Judicial Circuit Court of Wayne County/Trial Felony Murder (Co-Defendants) - Status: <i>Guilty (Jury Trial)</i>
9/2002	36 th District Court of Wayne County/Preliminary Exam 2 nd Degree Murder - Status: <i>Bound Over</i>
11/2002	52-2 District Court of Oakland County/Preliminary Exam Negligent Homicide - Status: <i>Unknown</i>
12/2002	43 rd District Court of Oakland County/Preliminary Exam Negligent Homicide - Status: <i>Bound Over</i>

EDUCATION

2003	Institute of Police Management and Technology (IPTM) & Michigan State Police; Lansing, Michigan Human Factors in Traffic Crash (40 hours)
12/1976	Schoolcraft Community College – Livonia, Michigan Reserve Police Officers Training Academy
3/1978	Lake Michigan College – Benton Harbor, Michigan M. L. E. O. T. C. – Basic Regional Police Academy
4/1986	Michigan State Police Training Academy – Lansing, Michigan Trooper/Recruit School
12/1987	Michigan State Police Training Academy – Lansing, Michigan Course Study: At-Scene Traffic Crash Investigation
2/2000	University of North Florida/I.P.T.M. – Jacksonville, Fla. Campus Course Study: Advanced Traffic Crash Investigation
3/2000	University of North Florida/I.P.T.M. – Jacksonville, Fla. Campus Course Study: Traffic Crash Reconstruction
12/2000	Texas A & M University/Engineering Extension Service – Lansing, Michigan Course Study: Electronic Data Recorders – Technology and Applications
2/2001	University of North Florida/I.P.T.M. – Melbourne, Fla. Brevard Campus Course Study: Motorcycle Crash Investigation



- 5/2001 North Coast Polytechnic Institute – Akron, Ohio
Course Study: Basic Commercial Vehicle Crash Reconstruction
- 5/2001 University of North Florida/I.P.T.M. – Adjunct Facility – Lansing, Michigan
Course Study: Pedestrian/Bicycle Crash Investigation
- 2/2002 Collision Safety Institute (C.S.I.) Extension Service – Lansing, Michigan
Course Study: Crush Energy Analysis for Traffic Crash Reconstruction
- 10/2002 Safety Solutions Institute/Peterson Truck Co. – Santa Rosa, California
Course Study: Advanced Heavy Vehicle Collision Reconstruction

TEACHING/PRESENTATIONS

Michigan State Police; Responsible for the continuing education and updating of all “at-scene” crash investigators employed by the Department of State Police in Southeast Michigan. This includes refresher of past and present techniques used in crash investigation as well as keeping up with current technology and its application in the field.

Michigan Trucking Association/Eastern Chapter - Truck Safety Council/November 2000; Update council on current investigative techniques for truck crash investigation. Discuss safety issues related to driver error and its effects on the trucking industry.

ADDITIONAL RESEARCH/DATA COLLECTION

- 4/2000 Escanaba, Michigan
Conducted numerous acceleration and deceleration tests of large log hauling, multi-axle trucks on various surfaces (wet & dry). Studied the effects of loads on the braking systems of these vehicles.
- 9/2000 Lansing, Michigan
Tested “yaw sensing” devices with the Bosch Corporation by performing yaw inducing driving maneuvers. Conducted accuracy tests of the “Critical Speed Formula” by comparing that application to the radar assigned speed of vehicles while in a yaw.
- 12/2000 Lansing, Michigan
Conducted actual crash tests where data was downloaded from the on-board “Sensing & Diagnostic Module” (S.D.M) and interpreted.
- 2/2001 Melbourne, Florida
Conducted “Co-efficient of Friction” tests of motorcycles by dropping from rear of moving pick-up truck for measurements.
- 7/2001 Grand Rapids, Michigan
International Association of Accident Reconstructionists Conference (I.A.A.R.S.)
Conducted numerous skid tests of vehicles and compared multiple ways of determining road surface coefficient of friction.
- 11/2002 Lansing, Michigan
Tested the accuracy of the Vetronix 3000 Accelerometer by performing numerous skid tests and comparing recorded results with conventional means of drag factor determination.

**ACCREDITATION**

12/2001 Accreditation Commission for Traffic Accident Reconstructionists (A.C.T.A.R) Certification #1228

CERTIFICATIONS

At-Scene Traffic Crash Investigation
Advanced Traffic Crash Investigation
Traffic Crash Reconstruction
The E.D.R. Technology & Application
C.D.R. Retrieval System
Investigation of Motorcycle Crashes
Applied Physics for Traffic Crash Investigators
Basic Commercial Vehicle Crash Reconstruction
Damage and Energy Applications for Collision Reconstruction
Pedestrian/Bicycle Crash Investigation
Advanced Heavy Vehicle Collision Reconstruction