

C.V. of Dan Mills

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Professional Experience

DCM Technical Services Inc.

1996 to present

Owner and Consultant, DCM Technical Services Inc

Ryerson Polytechnic University

2000 – 2003

Lead Collision Investigator, Transport Canada Vehicle Safety Research Centre.

Ryerson Polytechnic University

1996 to 2000

Geomatics Technician/Researcher, Transport Canada Vehicle Safety Research Centre

Education

Masters of Civil Engineering, Transportation

Ryerson Polytechnic University, 2001 – 4 courses completed

Certificate: Digital Geographic Information Systems

Ryerson Polytechnic University, 1999-2001

Bachelors of Technology, Survey Engineering

Ryerson Polytechnic University, 1992-1996

Undergraduate thesis; designed a Cost Benefit Analysis and procedure for implementing a Geographic Information System in local government. This procedure was then applied in a case study of a Southern Ontario town.

Skills, Conferences and Continued Training

- ARC/CSI Crash Conference, Las Vegas NV (2006)
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- Canadian Multi-Disciplinary Road Safety Conference, Ottawa ON (2004)
- Low Speed Collision Reconstruction Course, OPP (2004)
- Canadian Multi-Disciplinary Road Safety Conference XIII, Banff, AB (2003)

- Pedestrian Collision Reconstruction Course, RCMP (2002)
- Rollover Collision and Momentum Applications, Collision Safety Institute (2002)
- Canadian Multi-Disciplinary Road Safety Conference XII, London ON (1999)
- Biomechanics of Injury Workshop, Canadian Multidisciplinary Road Safety Conference XII (2001)
- WinCRASH software training, Trantech (2001)
- Vetronix Crash Date Retrieval System, Collision Safety Institute (2001)
- Collision Reconstruction Training, Transport Canada (1999)
- Infant and Child Restraint Training, Transport Canada (1999)
- Fundamentals of Applied Physics for Traffic Accident Investigators, Institute of Police Technology and Management (1999)
- Canadian Multi-Disciplinary Road Safety Conference XI, Halifax NS (1999)
- Joint Occupational Health and Safety Committee Certification, Industrial Accident Prevention Association (1999)
- Handling of Radioactive Chemicals, International Radiochemical Centre (1998)
- Canadian Multi-Disciplinary Road Safety Conference X, Toronto ON (1997)

Activities

- Crash Testing to date:
 - 13 low speed, live occupant, vehicle to vehicle collisions
 - 13 low speed, live occupant, bumper car rear-end tests
 - 35 high speed, live occupant, vehicle to vehicle collisions
 - 5 high speed, crash tunnel, vehicle to vehicle collisions
 - 2 motorcycle to car collisions
 - 3 static crash test
 - 6 static air bag deployments
 - 2 radio controlled vehicle rollover
 - 2 child restraint dynamic compliance tests
- Photogrammetry/PhotoModeler techniques invited presentation at the Canadian Association of Technical Accident Investigators Conference, Calgary AB, (2005)
- Continued training of the 3-day Photogrammetry/PhotoModeler Pro for police agencies and collision reconstruction consultants.
- Train-The-Trainer PhotoModeler Pro for Collision Reconstruction course to the Washington State Police in Jan 2004.
- Presenting Child Safety Restraint workshops for the Toronto and Toronto Catholic District Children's Aid Society
- Taught a 1-day workshop on close-range photogrammetry applications and techniques in the field of Forensics for the 15th Annual Toronto Police Services, Forensic Identification Seminar (2001)
- Taught numerous 1-day seminars on the application of close-range photogrammetry in collision reconstruction to police officers and consultants.

- Presented talks on geomatics innovations to Women in Engineering Camp held at Ryerson each summer
- Webmaster and councillor, Ontario Association of Remote Sensing (O.A.R.S.)

Publications

Howard A, Moses McKeag A, Rothman L, Mills D, Blazeski S; **Cervical Spine Injuries in Forward Facing Child Restraints**; Journal of Trauma; June 2004

Mills D, Carty G; **Comparative Analysis of Low Speed Live Occupant Crash Test Results to Current Literature**; Canadian Multidisciplinary Road Safety Conference XIV, Ottawa ON; 2004

Howard A, Rothman L, Moses McKeag A, Pazmino-Canizares J, German A, Monk B, Comeau JL, Hale I, Mills D, Blazeski S; **Children in Side Impact Motor Vehicle Crashes: Seating Position and Injury Mechanism**; Canadian Multidisciplinary Road Safety Conference XIII, Banff AB; 2003

Chapman M, Mills D; **Vehicle Crush Measurements Using High Resolution Terrestrial LIDAR**; Canadian Multidisciplinary Road Safety Conference XIII, Banff AB; 2003

White Papers

Mills D, Carty G; **Semi-Automated Crush Determination Using Coded and Non-Coded Targets with Close-Range Photogrammetry**, published as part of ARC Network Monthly Newsletter, March 2005

Affiliations

- Member and moderator of the PhotoModeler Training Discussion Group
- Member of International Network of Collision Reconstruction (INCR) group
- Member of CDRTools group
- Member of Canadian Association of Road Safety Professionals (CARSP)
- Member of Society of Automotive Engineers (SAE)