

SAM KODSI, B.Eng., P.Eng.
Professional Forensic Engineer

Mr. Sam Kodsi holds a Bachelor of Engineering (Mechanical) and is a licensed Professional Engineer. He is the principal engineer at Kodsi Engineering; a Firm specializing in Forensic Engineering: Collision Reconstruction, vehicle defect investigations, product liability, and personal injury matters. Sam has extensive hands on automotive experience and has been involved with SAE (Society of Automotive Engineers) as an active member since 1993. Mr. Kodsi obtained a certificate in Accident Reconstruction from the IPTM at the University of North Florida, took several specialized courses and participated in a number of conferences and seminars and crash tests on Accident Reconstruction, Vehicle Dynamics and Occupant Biomechanics and Personal Injury Matters. Sam is a member of additional professional associations including the Canadian Society of Forensic Science (CSFS), International Association of Accident Reconstruction Specialists (IAARS), Canadian Association of Technical Accident Investigators and Reconstructions (CATAIR), The Canadian Association of Road Safety Professionals (CARSP) and the American Society of Mechanical Engineers (ASME).

Mr. Kodsi has several years of experience under his belt and has been directly involved in over 1000 Collision Reconstructions and Personal Injury Incidents. Sam has been directly involved in research, participated in crash testing, studies on coefficient of friction testing. His published work includes numerous papers and articles on subjects relating to vehicle collisions and automobile failures. He has lectured during many presentations to insurance and legal professionals on the many facets of the field, and has appeared on television as a guest expert relating to collision reconstruction and vehicle handling. Sam has been qualified as an expert witness in all levels of criminal and civil court, and arbitration on motor vehicle accident reconstruction and personal injury.

ACADEMIC BACKGROUND

- Bachelor of Engineering (Mechanical), McMaster University, Hamilton, Ontario

ADDITIONAL COURSES AND SEMINARS

- Traffic Accident Reconstruction, IPTM, University of North Florida, Jacksonville, Florida
- Society of Automotive Engineers (SAE) International Congress and Exposition, Detroit, Michigan
- Low Speed Accident Reconstruction And Biomechanics, CSME, Toronto, Ontario
- Automobile Vehicle Dynamics, Professional Engineering Education Program, SAE, Chicago, IL,
- Crash Data Retrieval Operator "Black Box Technology" Certification, Collision Safety Institute
- Canadian Association of Technical Accident Investigators and Reconstructionists Conference
- Analysis of Low Speed Collisions, Collision Safety Institute
- ARC-CSI Crash Conference, Las Vegas, Nevada
- English XL Variable Incidence Tribometer Certification Program, International Safety Academy

PROFESSIONAL SOCIETIES

- Professional Engineers of Ontario (PEO),
- Society of Automotive Engineers (SAE),
 - Active member in AIRP-Electronic Data Recorder committee
- American Society of Mechanical Engineers (ASME)
- Canadian Society of Forensic Science (CSFS)
- The Canadian Association of Road Safety Professionals (CARSP)
- International Association of Accident Reconstruction Specialists (IAARS)
- Canadian Association of Technical Accident Investigators and Reconstructions (CATAIR)

SPECIALIZED PROFESSIONAL COMPETENCE

- **Motor Vehicle Accident Reconstruction including**

Speed Calculations, Point of Impact Determination, Driver Perception-Reaction and Behavior Evaluation, Mechanical Failure Assessments, Roadway Geometric, Signage and Maintenance Assessments, Roadside Safety, Lighting Studies, Visibility Analysis, Headlight Assessments, Field Testing, Vehicle Crush Measurements, Seat Belt Usage Assessments, Air bag Assessments, "Black Box" Crash Data Retrieval, Collision Dynamics, Occupant Kinematics, AutoCAD Drawings, Photogrammetry and 3-D Computer Simulations. Motorcycle/Bicycle/Pedestrian Accident Analysis

- **Low Speed Impact Analysis including**

Staged Collision Assessments, Vehicle Dynamics, Occupant Kinematics and Response, Collision Severity Assessments

- **Vehicle Mechanical Inspections including**

Vehicle component/system failure: Examination and Analysis of Failed Components and Systems

- **Personal Injury Incident Investigations/Reconstructions including**

Slip / Trip and falls, Slip Resistance Testing, Walking Surface Assessments, Building Code Issues, Product Liability, Visibility Analysis, Lighting Studies, Pedestrian Perception-Reaction and Behavior

EMPLOYMENT BACKGROUND

Kodsi Engineering Incorporated (Mississauga) 2006 to present

Principal Forensic Engineer specializing in motor vehicle accident reconstruction, mechanical assessments and personal injury assessments

Origin And Cause Incorporated (Mississauga) 2001 to 2006

Head of the motor vehicle accident reconstruction and Personal Injury units.

Walters Forensic Engineering (Kitchener) 1997 to 1998, (Toronto) 1998 to 2001

Forensic Engineer specializing in accident reconstruction, mechanical assessments and failure analysis

G.G.S. Plastic Engineering (Brampton/Bolton) 1995

Quality Control Assistant responsible for implementing quality standards (ISO 9000) on vehicle safety systems for TRW Automotive such as seat belt D-rings and latch plates, door latches and hinges for the Magna International family of companies

PAPERS AND ARTICLES

- Authored several papers and articles on Accident Reconstruction and other related fields

COMMITTEES, PRESENTATIONS

- Appeared as a Guest Expert on City TV, lectured on Accident Reconstruction, Low Speed Impacts, Failure Analysis and Personal Injuries at Seminars for Insurers and Lawyers other industry professionals at various engagements

RESEARCH

- Conducted extensive field testing, participated in crash tests to study the reliability of "black box" data, document vehicle behaviour and occupants' response
- Conducted numerous coefficient of friction and slip testing studies, participated in tests to study the accuracy and precision of the English XL slip meter

COURT APPEARANCES

Qualified as an expert witness in Motor Vehicle Accident Reconstruction and Personal Injuries in:

- Ontario Court of Justice
- Ontario Superior Court of Justice (Ontario Court General Division)
- Small Claims Court, Provincial Court and Arbitrations