

Hai Huang, B.Eng, B.A.Sc, M.A.Sc, P.Eng

Walters Forensic Engineering

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SPECIALIZED PROFESSIONAL COMPETENCE

- Human Factors Engineering
- Personal Injuries Investigation
- Accident Reconstruction
- Human Performance

ACADEMIC BACKGROUND

- Master of Applied Science - Rehabilitation Engineering
 - University of Toronto, Institute of Biomaterial and Biomedical Engineering Toronto, Canada, 2005
 - Toronto Rehabilitation Institute, Toronto, Ontario, Canada
 - *Research: A Laser Line Object Detection System for Powered Wheelchairs*
- Bachelor of Applied Science - Computer Engineering
 - University of Ottawa, Ottawa, Canada, 2003.
 - Summa Cum Laude, recipient of various scholarships and on Dean's Honor List
- Bachelor of Engineering - Mechanical Engineering
 - Tongji University, Shanghai, P. R. China, 1993

EMPLOYMENT BACKGROUND

Walters Forensic Engineering (Toronto) 2006 to present

Forensic Engineer specializing system, workplace and environment assessment, design and remediation, facilities layout and assessments, and accident reconstructions.

Staxi Inc. (Mississauga) 2005 -2006

Product Design Engineer specializing in product safety evaluation of wheelchairs, including usability studies, stability, environment, and human factors assessments.

Centre for Studies in Aging, Sunnybrook & Women's Health Sciences Centre,
(Toronto) 2003-2005

Research Assistant specializing in medical engineering, design and safety and health evaluation of human-machine interfaces for medical/rehabilitation devices, including a sling device and mobile platform,

Toronto Rehabilitation Institute, (Toronto) 2003-2005

Research Assistant specializing in medical engineering design and safety and health evaluation of a human-machine interface for an electrical wheelchair with anti-collision system.

ADDITIONAL EDUCATION

- Snow School - “Training for Operators, Supervisors, Patrollers and Mechanics”, Ontario Good Roads Association and Ontario Road Salt Management Group, September 26 - 28, 2011, Alliston, Ontario.
- “National Expert Witness Academy - Cross Examination at the Court House”, The Advocates’ Society, April 26-27, 2012, Toronto, Ontario.
- “Road Design: Intersection Course”, Ontario Good Roads Association and Municipal Engineers Association, March, 2013, Ontario
- “Police Traffic Accident Investigation, Pedestrian Accidents”, Michigan State University, November, 2014, Auburn Hills, Michigan
- “Police Traffic Accident Investigation, Night Visibility”, Michigan State University, November, 2014, Auburn Hills, Michigan
- XL Tribometerist Certification Program, Excel Tribometers LLC, November, 2015, Denver, Colorado
- “Road Weather Information System (RWIS) equipment and Operations”, Centre for Advanced Transportation Technology, November, 2015
- “Principles and Tools for Road Weather Management”, Centre for Advanced Transportation Technology, November, 2015
- “Municipal Pavement Condition Evaluation”, Ontario Good Roads Association, May, 2016, Ontario

PROFESSIONAL AFFILIATIONS

- Professional Engineers of Ontario
- Institute of Transportation Engineers
- Canadian Society of Safety Engineering
- Association of Canadian Ergonomists

PUBLICATIONS

- “The Laser Line Object Detection Method in an Anti-collision System for Powered Wheelchairs”, IEEE 9th International Conference on Rehabilitation Robotics, Chicago, June 28, 2005

COURT APPEARANCES

Provided expert testimony in:

Ontario Superior Court of Justice: