Aryeh Weinberger, B.Eng., M.Eng., E.I.T.

Advantage Forensics® Inc. (416) 630-0700

2770 Dufferin St., Suite 115, Toronto, ON, M6B 3R7   aweinberger@aforensics.ca

PRACTICE AREAS

- **Human Factors**
- **Product Failure**
- **Warning & Signage Assessment**
- **Collision Reconstruction**
- **Injury Biomechanics**
- **Pedestrian Collisions**
- **Nighttime Visibility**
- **Motorcycle Collisions**
- **Computer Simulation & Animation**
- **Slips, Trips & Falls**
- **Staircase Building Code Assessment**
- **Video Analysis & Photogrammetry**

ACADEMIC BACKGROUND

Master of Engineering, Forensic Engineering, University of Toronto, Toronto 2021

- Graduate courses in Forensic Engineering, Collision Reconstruction, Human Factors, Failure Analysis, Engineering Psychology and Human Performance

Bachelor of Engineering, Mechanical Engineering, York University, Toronto, 2020

- Undergraduate courses in Physics, Chemistry, Kinematics & Dynamics, Engineering Design, Machine Design, Manufacturing Methods and FEA/CFD Simulation Tools

Bachelor of Talmudic Law, Talmudic Studies, Ner Israel Rabbinical College, Baltimore, Maryland, 2016

- Undergraduate courses in Religious Studies, Ethics and Talmudic Law

Engineering Prerequisites, Community College of Baltimore County, Baltimore, Maryland, 2016

- Undergraduate courses in Mathematics and Economics

EMPLOYMENT HISTORY

Advantage Forensics Inc., Toronto

Forensic Engineering Associate, September 2021 to present

- Member of Biomechanics, Collision Reconstruction, and Product Failure Teams

Forensic Engineering Co-op Student, May 2019 to August 2019

- Forensic Assistant on Biomechanics, Collision Reconstruction, and Product Failure Teams

aforensics.ca

- Evidence handling, testing and documentation
- Site examination measurement and documentation
- Nighttime scene photography
- LED light meter calibration study
- Computer simulation of collisions
- Building Code assessment
- Technical report writing

PROFESSIONAL SOCIETIES & ASSOCIATIONS

- Professional Engineers of Ontario, E.I.T., since 2021
- Human Factors & Ergonomics Society (HFES), since 2021, Forensics Program
- American Society for Testing & Materials (ASTM) informational member, since 2021

    Committee E58: Forensic Engineering

    Forensic Practice, Vehicular Incidents

PRESENTATIONS

- 'Measurement of LED streetlights', Advantage Forensics, August 2019

ADDITIONAL COURSES, TRAINING & AWARDS

- 'Vehicle Data Forensics', 30 Forensic Engineering, webinar, July 2021
- 'Municipal Litigation Risk Management: The Human Factors in Current and Future Roadway Risk and Liability Assessments', 30 Forensic Engineering, webinar, July 2021
- 'The Digital Witness: The Use and Limitations of Photo and Video Evidence', 30 Forensic Engineering, webinar, July 2021
- 'Product Liability: Summer Fun Gone Wrong', 30 Forensic Engineering, webinar, June 2021
- 'Assessments of Pedestrian and Cyclist Motor Vehicle Collisions', 30 Forensic Engineering, webinar, June 2021
- 'Multidisciplinary Assessments of Personal Injury Claims on Stairways', 30 Forensic Engineering, webinar, May 2021
- 'The Nuances of Collision Reconstruction and Human Factors Assessments in MVAs Involving Motorcycles', 30 Forensic Engineering, webinar, May 2021
- 'Product Liability Investigations: How Everyday Objects Can Cause Big Problems', 30 Forensic Engineering, webinar, January 2021

- 'Assessments of Snowmobile and All-Terrain Vehicle (ATV) Collisions', 30 Forensic Engineering, webinar, November 2020
- 'New Technologies for Assessing Vehicle Collision Claims', 30 Forensic Engineering, webinar, November 2020
- 'Assessments of Restraint Use and Effectiveness during Motor Vehicle Collisions', 30 Forensic Engineering, webinar, November 2020
- 'Latest Technologies Used to Investigate Heavy Truck Collisions', 30 Forensic Engineering, webinar, October 2020
- 'What would a Normal Driver do? Human Factors in Collisions and Municipal Liability Assessments', 30 Forensic Engineering, webinar, October 2020
- 'Collision Reconstruction Assessments of Suspected Fraudulent Claims', 30 Forensic Engineering, webinar, June 2020
- 'Joint Site, Lab and Vehicle Examinations during COVID-19', 30 Forensic Engineering, webinar, May 2020
- Co-op Student of the Year Award, York University - Lassonde School of Engineering, 2020
- Golden Key International Honour Society, York University, 2017
- Member of Dean's Honour Roll, York University, 2017
- Phi Theta Kappa Honor Society, Community College of Baltimore County, 2015

PROJECTS

- Design of Steering System for FSAE Vehicle, Undergraduate Capstone Project, York University, 2020
- Design of an Obstacle Avoidance Robot, Undergraduate Design Project, York University, 2018
- Design of a Cable Crossing Device, Undergraduate Design Project, York University, 2018