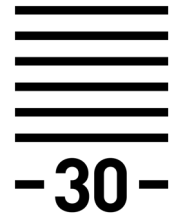




Nicholas Young, B.A.Sc., E.I.T.

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EXPERT SUMMARY

Mr. Nicholas Young is an Associate with the Collision Reconstruction group at 30 Forensic Engineering. He holds a Bachelor of Applied Science with a focus in Mechanical Engineering. He is also a Certified Forensic Video Technician through the Law Enforcement & Emergency Services Video Association (LEVA). Nicholas conducts vehicle examinations, site assessments, and investigations for collisions involving different types of vehicles, including automobiles, commercial vehicles, bicycles, motorcycles, and other types of machinery.

SPECIALIZED PROFESSIONAL COMPETENCIES

- Vehicle mechanical fitness examinations
- Restraint system usage and effectiveness assessments
- Event Data Recorder (black box) data retrieval and analysis
- Collision site and visibility assessments
- Computer-aided photogrammetry, collision simulation, and visualization
- Forensic video analysis of dash camera, cell phone, and security camera footage

ACADEMIC BACKGROUND

Bachelor of Applied Science (Mechanical Engineering, Honours, Co-operative Program, With Distinction),
University of Waterloo, Waterloo, Ontario, 2019

ADDITIONAL COURSES

- Commercial Vehicle Air Brake Training, Bendix Comprehensive Online Training Program, March 2023
- Interactive Driver Response Research (I.DRR) Webinar – Nighttime Crashes on Lighted and Unlit Roads with IDRR, Crash Safety Solutions, February 2023
- Accessing and Interpreting Heavy Vehicle Event Data Recorders, Society of Automotive Engineers (SAE), Oxnard, California, October 10 – 14, 2022
- LEVA Level 2: Digital Multimedia Evidence Processing, Law Enforcement & Emergency Services Video Association, Toronto Police Headquarters, Toronto, Ontario, May 2 – 6, 2022
- Crash Data Retrieval Analysis Course, CATAIR, York Regional Police Association, Aurora, Ontario, February 21 – 25, 2022



- LEVA Level 1: Forensic Video Analysis and the Law, Law Enforcement & Emergency Services Video Association, Toronto Police College, Etobicoke, Ontario, January 17 – 21, 2022
- Passenger Vehicle Crash and Fire Testing with Ontario Provincial Police, Aylmer, Ontario, August 2021
- Boat Crash Testing with Ontario Provincial Police, Stouffville, Ontario, August 2021
- Tesla, Hyundai/Kia, and Toyota Techstream Event Data Recorder Course, Ontario Provincial Police Headquarters, Orillia, Ontario, December 3 – 6, 2019
- Advanced Driver Training, General Motors of Canada Company, Kapuskasing, Ontario, February 2017

PROFESSIONAL EXPERIENCE

30 Forensic Engineering

Associate, Collision Reconstruction
2019 – Present, Toronto, Ontario

- Conduct technical investigations involving motor vehicle collision reconstructions, defects in vehicle components, failures involving engineering factors, and human factors related vehicle collisions
- Review and assess quantitative accident data for collision severity (delta-v) determinations and motor vehicle kinematics

Walters Forensic Engineering Inc

Accident Reconstruction Analyst
2018, Toronto, Ontario

- Prepared technical engineering reports regarding motor vehicle collisions and traffic incidents
- Investigated accident scenes and analyzed involved vehicles for crash damage and diagnostic data
- Constructed collision simulations using PC Crash and through vehicle dynamics studies

Multimatic Inc.

Senior Design Engineering Student
2017, Markham, Ontario

- Engineering development of vehicle door hinges and check arms for upcoming Ford and Honda programs, including user effort and reliability studies, kinematic studies, tolerance stacks, and packaging layouts
- Oversaw research and development testing of high-friction check arm prototypes

General Motors of Canada Company

Durability Test Engineering
2016 – 2017, Kapuskasing, Ontario

- Performed validation testing of pre-production vehicles in extreme environmental conditions
- Executed root-cause analysis of faulty vehicle systems and investigated performance issues
- Collaborated with global GM engineering teams, resulting in rapid issue tracking and resolution
- Analyzed failure trends and maintained accurate vehicle test history files



CURRICULUM VITAE

Nicholas Young, B.A.Sc., E.I.T.

PROFESSIONAL SOCIETIES AND ASSOCIATIONS

- Professional Engineers of Ontario (PEO), Member, Engineer in Training (E.I.T.)
- Society of Automotive Engineers (SAE) International, Registered Associate
- Law Enforcement and Emergency Services Video Association (LEVA), Associate Member and Certified Video Technician

SPEAKING ENGAGEMENTS

- “Forensic Biomechanics: Collision Reconstruction,” Guest Lecture, University of Waterloo, Faculty of Kinesiology and Health Sciences, Waterloo, Ontario, February 2023