CURRICULUM VITAE

Nicholas Young, B.A.Sc., P.Eng.

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EXPERT SUMMARY

Mr. Nicholas Young is a Senior Associate with the Collision Reconstruction group at 30 Forensic Engineering. He holds a Bachelor of Applied Science with a focus in Mechanical Engineering and is a licensed Professional Engineer in the Province of Ontario. He joined 30 Forensic Engineering in May 2019 and has since developed investigation expertise in relation to motor vehicle collisions and accident reconstructions of various types, including those involving passenger automobiles, commercial trucks, recreational vehicles, bicycles, motorcycles, and pedestrians. Nicholas is also recognized as an accredited Traffic Accident Reconstructionist by ACTAR and as a Certified Forensic Video Technician by LEVA.

SPECIALIZED PROFESSIONAL COMPETENCIES

- Collision reconstruction involving passenger vehicles, commercial vehicles, cyclists, and pedestrians
- Passenger Vehicle Event Data Recorder (EDR or 'black box') data retrieval and analysis
- Heavy Vehicle Event Data Recorder (HVEDR) data retrieval and analysis
- Vehicle mechanical fitness examinations
- Restraint system usage and effectiveness assessments
- 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 AND CONFERENCES

- LEVA Level 3: Forensic Video/Image Compare & Contrast, Law Enforcement & Emergency Services Video Association, September 22 – 26, 2025
- ACTAR Test Preparation – Comprehensive (Online) Training, June 2025

- IPTM Symposium on Traffic Safety, Institute of Police Technology and Management, Orlando, Florida, May 19 – 22, 2025
- Photogrammetry 1: Photomodeler and Syntheyes for Forensic Video Analysis, Law Enforcement & Emergency Services Video Association, December 9 – 13, 2024
- SAE World Congress Experience, Society of Automotive Engineers, Detroit, Michigan, April 16 – 18, 2024
- Smart Sensor Simulator #2 Advanced Direct to Module Training, Forensic Training Group LLP, Nashville, Tennessee, March 7 – 8, 2024
- World Reconstruction Exposition, WREX, Orlando, Florida, April 17 – 21, 2023
- 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

Senior Associate, Collision Reconstruction
2025 – 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
- Perform collision site assessments, vehicle examinations, and retrieval of EDR and HVEDR data
- Review and assess quantitative accident data for collision severity (delta-v) determinations and motor vehicle kinematics

Associate, Collision Reconstruction
2019 – 2025, Toronto, Ontario

Walters Forensic Engineering Inc

Accident Reconstruction Analyst (Co-op)
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

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 Student
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

PROFESSIONAL SOCIETIES AND ASSOCIATIONS

- Professional Engineers of Ontario (PEO), Licensed Member
- The Accreditation Commission for Traffic Accident Reconstruction (ACTAR), Full Accreditation as Traffic Accident Reconstructionist #5245
- Law Enforcement and Emergency Services Video Association (LEVA), Certified Member and Certified Forensic Video Technician (CFVT)
- Society of Automotive Engineers (SAE) International, Registered Associate

SPEAKING ENGAGEMENTS

- “Collision Reconstruction: Rollovers”, Guest Lecture, University of Toronto, Faculty of Applied Science and Engineering, Toronto, ON, February 2024
- “Forensic Biomechanics: Collision Reconstruction,” Guest Lecture, University of Waterloo, Faculty of Kinesiology and Health Sciences, Waterloo, Ontario, February 2025, 2024, 2023

PUBLICATIONS

- “Pole/Tree Impact Analysis,” M. Paquette, N. Young, G. Prentice & M. Fabbroni, 32nd Annual Congress of the European Association for Accident Research and Analysis (EVU), 2024