CURRICULUM VITAE

Ankit Kumar, B.A.Sc., P.Eng. *(he/him)*

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EXPERT SUMMARY

Mr. Ankit Kumar 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 recognized as a Professional Engineer in the Province of Ontario and is a LEVA Certified Forensic Video Technician. Ankit conducts vehicle examinations, site assessments, and investigations for collisions involving different types of vehicles, including automobiles, trucks, bicycles, motorcycles, and other types of heavy machinery.

SPECIALIZED PROFESSIONAL COMPETENCIES

- Collision reconstruction of commercial and passenger vehicles, motorcycles, cyclists, and pedestrian impacts
- Collision site and visibility assessments
- Vehicle mechanical examinations
- Passenger vehicle and heavy truck Event Data Recorder imaging and analysis
- Toyota/Lexus/Scion Vehicle Control History data retrieval and analysis
- Telematics/Infotainment data retrieval and analysis
- Restraint system usage and effectiveness assessments
- Forensic video analysis of dash cameras, cell phones, and security camera footage

ACADEMIC BACKGROUND

Bachelor of Applied Science with Honors in Mechanical Engineering with an Option in Management Science, University of Waterloo, 2014

ADDITIONAL COURSES & CONFERENCES

- LEVA Photogrammetry 1: PhotoModeler and SynthEyes for Forensic Video Analysis, Law Enforcement & Emergency Services Video Association (LEVA), Online, December 2024
- iVe Vehicle System Forensics Course, Berla Corporation, Orillia, Ontario, October 2024
- IAATI and CASIU Vehicle Crimes Conference, May 2024
- LEVA Level 2: Digital Multimedia Evidence Processing, Law Enforcement & Emergency Services Video Association (LEVA), University of New Haven, New Haven, Connecticut, August 2023

- World Reconstruction Exposition, WREX, Orlando, Florida, April 2023
- Commercial Vehicle Air Brake Training, Bendix Comprehensive Online Training Program, March 2023
- Accessing and Interpreting Heavy Vehicle Event Data Recorders, Society of Automotive Engineers (SAE), Oxnard, California, October 2022
- LEVA Level 1: Forensic Video Analysis and the Law, Law Enforcement & Emergency Services Video Association (LEVA), Toronto Police College, Toronto, Ontario, January 17 – 21, 2022
- Photogrammetry 4 Forensic Certification, ai2-3D, Online, July 2020
- Crash Data Retrieval (CDR) Operator and Analysis Course, CATAIR, York Regional Police Association, Aurora, Ontario, November 2019
- Advanced Traffic Crash Investigation Course, IPTM, Online, September 2019
- Motorcycle Collision Reconstruction Course, Lightpoint Scientific LLC, York Regional Police Association, Aurora, Ontario, May 2019
- Crash Investigation I Course, Northwestern University, Online, May 2019
- Faro Focus 3D Scanner Certification, Toronto, Ontario, October 2018

PROFESSIONAL EXPERIENCE

30 Forensic Engineering

Associate, Collision Reconstruction
2021 – Present, Toronto, Ontario

- Conduct technical investigations involving motor vehicle collision reconstruction, defects in vehicle components, failures involving engineering factors, human factors related vehicle collisions, and fraud investigations
- Review and assess quantitative accident data for collision severity (delta-v) determinations and motor vehicle kinematics
- Conduct forensic video analysis for the purposes of clarifying video, determining vehicle speeds, or determining object locations through single view reverse projection metrology

Pario Engineering and Environmental Sciences

Forensic Engineer, Motor Vehicle Reconstruction
2018 – 2021, Vaughan, Ontario

- Conducted technical investigations of motor vehicle and recreational vehicle collisions
- Investigated defects in vehicle components and mechanical equipment
- Investigated failures involving engineering factors and human factors in vehicle collisions

Husky Injection Molding Systems Ltd.

Project Manager
2017 – 2018, Bolton, Ontario

- Managed deliverables and expectations by coordinating between customers, sales, engineering, manufacturing, and operations for all assigned accounts for the Asia and Luxembourg teams

Mitchell Plastics

Program Manager
2017, Kitchener, Ontario

- Managed the program's critical path for molded and painted automotive interior assemblies from concept design to SOP for various OEMs (GM, Audi, and Ford)

Project Engineer
2014 – 2017, Kitchener, Ontario

- Responsible for prototype/production customer builds, validation testing for PPAP, and assisted the Program Manager with reviewing tooling design and mold flow analysis to ensure tool and part design met customer requirements

PROFESSIONAL SOCIETIES AND ASSOCIATIONS

- Professional Engineers of Ontario (PEO), Licensed Member
- Society of Automotive Engineers (SAE), Member
- Berla, Certified Vehicle System Forensic Examiner (CVSE), Certified Vehicle System Forensic Operator (CVSO), and Certified Vehicle System Forensic Technician (CVST)
- Law Enforcement and Emergency Services Video Association (LEVA), Associate Member and Certified Video Technician (CVFT)