Andrew Shan,

B.A. Sc., EIT

TRUE NORTH SAFETY GROUP

Expert Summary

Andrew is a Transportation Safety Analyst with TNS, and an Engineer-In-Training (EIT). He possesses a strong knowledge of transportation and traffic safety, collision analysis, intersection design, and speed limits. Andrew graduated from the University of Toronto with a degree in Civil Engineering. He has helped deliver the Vision Zero Road Safety Strategic Plan for the Region of Peel, as well as the Neighbourhood Area Speed Limit Project for the City of Mississauga. Andrew is an active executive member of the Toronto chapter of Young Professionals in Transportation (YPT) as the current social media coordinator. At TNS, Andrew provides transportation safety technical support to projects and expert opinions related to transportation system design, operations, and maintenance.

Specialized Professional Competencies

- Transportation Safety
- Collision and Speed Analysis
- Intersection Design
- Posted Speed Limits

Professional Experience

- True North Safety Group: 2021-present
- City of Mississauga: 2020-2021
- BA Consulting Group: 2019
- Regional Municipality of Peel: 2018-2019

Academic Background

- B.ASc. Civil Engineering, Transportation, University of Toronto, 2020

Project Experience

In Service Road Safety Review – Region of Peel, 2022-Ongoing – Conducted detailed collision analysis at ten locations, primarily along Dixie Road, to evaluate safety concerns and provide recommendations for improvement.

Video Conflict Analysis of Leading Pedestrian Intervals – Transport Canada, 2021-Ongoing – Conducted research to analyse the effectiveness of implementing Leading Pedestrian Intervals in various municipalities.

Video Conflict Analysis – York Region, 2021-Ongoing – Utilized recorded conflict data to conduct conflict and speed analyses at various intersections. Prepared reports to summarize key findings and safety issues, and suggest potential remedial measures.

McLaughlin Road Corridor Safety Review – City of Mississauga, 2021 – Conducted collision analysis, data summaries, and infrastructure inventory at six intersections and six road segments for a corridor safety review.

Safety Assessment of Digital Advertising Displays – RCC Media, Brampton, 2021 – Conducted studies to identify the impacts of electronic advertising signs, and performed calculations to determine whether the signs impact collision frequency.

Neighbourhood Area Speed Limit Project – City of Mississauga, 2020-2021 – Conducted site investigations for signage inventory and stakeout markings, as well as created work orders for sign and post installation. Drafted By-law changes for implementation of 40 km/h posted speed limits in neighbourhood areas, and 30 km/h posted speed limits in school zones and Community Safety Zones.

Rogers Centre Simulation Model – City of Toronto, 2019 – Modelled the traffic network of Toronto's Entertaiment District in PTV Vissim to program signal timings within the network and synchronized multiple intersections to run simultaneously.

Vision Zero RSSP, Regional Municipality of Peel, 2018-2019 – Analyzed historical pedestrian collision and fatality data to assess trends and create heat maps. Assisted with the implementation and approval of the Vision Zero Road Safety Strategic Plan by designing multimodal safety countermeasures as part of the Vision Zero Task Force.

Signalized Pedestrian Crossover, Regional Municipality of Peel, 2018-2019 – Performed site investigations to determine the ideal location for a pedestrian crossover (PXO) on Kennedy Road. Designed signals, crossover and concrete ramp to meet Ontario Traffic Manual (OTM) and AODA standards. PXO provided a retirement residence with access to a bakery and transit stops.

Professional Societies and Associations

- Engineer-In-Training, Professional Engineers of Ontario (PEO)
- Member, Canadian Institute of Transportation Engineers (CITE)
- Member, Ontario Society of Professional Engineers (OSPE)
- Social Media Coordinator, Toronto Chapter, Young Professionals in Transportation (YPT)