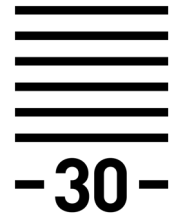




Samantha Bennett, B.Eng., EIT *(she/her)*

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EXPERT SUMMARY

Ms. Samantha Bennett is an Associate with the Transportation and Engineering Safety Group at 30 Forensic Engineering. She graduated with a Bachelor of Engineering, Civil Engineering from McMaster University. Samantha has a range of skills through experience in both the public and private sectors and has a strong focus on traffic safety, road safety programs, Vision Zero, road safety plans, and policy updates. She is also a part-time professor for Mohawk College's Civil Engineering Technology – Transportation program where she teaches Transportation Safety to final year students.

SPECIALIZED PROFESSIONAL COMPETENCIES

Transportation Engineering and Safety:

- Development and analysis of Vision Zero and Road Safety Action Plans in Ontario.
- Assessment of traffic safety using local standards, manuals, and guidelines.
- Specialized in traffic engineering and safety regulations in Ontario.
- School travel plan development for municipalities.
- Collision analysis to determine priority collision types for road safety programs.
- Development of road safety programs for pedestrians and cyclists.
- Red light camera benefit-cost analysis using statistical analysis and collision data.
- Area safety studies for intersections, street segments and other roadway locations.
- Strategic safety and planning policies that influence overall traffic safety outcome.
- Safety perspective for senior citizens, children, school travel and disable persons.
- Winter maintenance for private and public roadways, parking lots, plazas, shopping malls, business parks, apartment complexes, condominium access roads and private walkways.
- Slip and fall safety assessment in winter on roads, parking lots, driveways, sidewalks, and trails.
- Comparing minimum maintenance standards, highway traffic act, OTM manuals, master plans for winter maintenance incidents and collisions.



ACADEMIC BACKGROUND

Bachelor of Engineering – Civil Engineering, McMaster University, 2020

PROFESSIONAL EXPERIENCE

30 Forensic Engineering

Associate, Transportation Safety
2021 — Present, Toronto, ON

- Investigator for transportation operations and maintenance files for public, legal and insurance sector clients.
- Prepared report and performed analysis for winter maintenance of public roadways, highways, parking lots and plazas.
- Transportation safety and traffic engineering peer review services.

CIMA+

Engineering Professional / Engineer in Training
2016 – 2021, Burlington, ON

- Developed Vision Zero Road Safety Strategic Plans for Region of Durham, Region of Peel, Regional Municipality of Halifax, City of Kingston, City of Ottawa, and City of Winnipeg. Prepared workshop materials, participated in workshops, developed evaluation plans, engaged in public consultation, coordinated with stakeholders, recommended safety programs for municipalities, and developed road safety reports.
- Prepared benefit-cost analysis reports for various jurisdiction's Red-light Camera programs which included identifying high collision locations using EB analysis, using violation results, and engineering analysis to prepare priority list of sites, and calculating halo effect benefit.
- Assisted in the update of TAC's Manual of Uniform Traffic Control Devices for Canada 6th edition which included research and update to regulatory signs section, highway and information signs section, and pavement markings section. Delegated responsibilities to graphic designers to update images, graphics, and the manual in InDesign.
- Conducted research and assisted in the preparation of material of TAC's Road Safety Online Training Course for modules *Foundations of Road Safety* and *Implementing Road Safety Programs*.
- Audited the existing organizational structure of the City of Toronto and Region of Durham's Traffic Safety groups (which involved stakeholder interviews and policy reviews) to assist with the incorporation of Vision Zero into the existing groups, countermeasure prioritization, development of business best practices, and evaluation and monitoring plan development.
- Lead several proposal submissions, including preparing project budgets, schedules, and preparing work plans.



Mohawk College

Part-Time Professor

2020 – 2020, Hamilton, ON

- Professor for *Introduction to Transportation Safety (TRAN 10005)* to final term students in the Civil Engineering Technology – Transportation program at Mohawk College. The content of this course includes collision modification factors, safety performance functions, human factors, collision analysis, network screening, and oversaw the term project of the completion of in-service road safety reviews for priority corridors for the Region of Niagara.

City of Hamilton

Co-op Student – Traffic Engineering, Public Works

2015, 2016, Hamilton, ON

- Participated in various traffic studies (warrant review, volume collection, etc.), assisted in the preparation of professional report for City Council, completed school zone safety reviews, and conducted traffic safety studies (traffic calming review, speed hump review, sign placement, etc.).

City of St. Catharines

Co-op Student – Transportation and Engineering Department

2013, 2014, St. Catharines, ON

- Assisted with the inspection of various watermain and road construction projects within the city, recorded quantities and prepared daily reports. Worked with City engineers in an office environment assisting with the completion of building inspection analysis, AutoCAD drawings, and Excel documents.

PROFESSIONAL SOCIETIES AND ASSOCIATIONS

- Registered EIT with Professional Engineers of Ontario (PEO)
- Canadian Association of Road Safety Professionals (CARSP) Member