

Neha Marfani

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Education

Bachelor's in Applied Science and Engineering (2019 – Present)

Department of Civil Engineering 4th year - University of Toronto

Professional Skills

Technical Skills: Microsoft Office (Word, PowerPoint, Excel, Project), Python, InDesign, Sketchup, AutoCAD, SAP2000, STRAP, Slide2, ArcGIS, Aimsun, EPANET, HEC-RAS.

Certifications: Data Analysis in Excel (DataCamp), Pivot Tables in Spreadsheets (DataCamp), Data Visualization (DataCamp), Worker Health and Safety Awareness Training (Ontario Ministry of Labor)

Relevant Experience

CIV498 Capstone Group Design Project – Onsite Water, Stormwater and Wastewater Servicing (2023)

- Worked collaboratively in a team of 4 to design water, wastewater, and stormwater infrastructure to service a new community hub in Woolwich, Ontario.
- Designed a wastewater treatment plant using the Ontario Sewage Work Guidelines to reduce burden on the existing municipal infrastructure.
- Evaluated multiple solutions based on economic benefits, environmental protection and rehabilitation and resource recycling.
- Produced detailed design sheets and AutoCAD drawings using design guidelines for the Region of Waterloo and the team's engineering judgement.

Structural Engineering Assistant – Milman & Associates Limited (May 2022-August 2022)

- Designed foundations for an aviation hangar using the Concrete Design Handbook and produced detailed AutoCAD sketches for foundation reinforcement.
- Conducted analysis on various industrial and commercial buildings steel structures using the Handbook of Steel Construction for their structural integrity and provided solutions to increase capacity.
- Modelled and analyzed a steam boiler plant in STRAP to minimize its impact on surrounding structures.

The Citizen's Foundation – Corporate Relations Team (2021-2023)

- Planning and executing social events to raise funds for education in Pakistan.
- Researching and formalizing sponsors and partnerships with other UofT clubs and small businesses, resulting in approximately \$5000 in 2022-2023 school year.

Troitsky Bridge Building Competition (2021)

- Designed a bridge based on location, capacity, aesthetics, environmental impacts, and needs of the community in a team of 6.
- Produce detailed AutoCAD and Civil 3D drawings of the bridge through location surveying, load analysis and engineering judgement.
- Presented the design to a panel of judges in a PowerPoint Presentation, resulting in top 10 teams in the competition.

Project Manager - Engineering Strategies and Practice Project 1 & 2 (2019-2020)

- Worked collaboratively in a team of 6 to produce multiple solutions to meet a client's needs.
- Analyzed alternative solutions based on cost effectiveness, durability, and simplicity.
- Produced detailed technical documents and sketches using extensive research on the subject to improve understanding of the client.

Extra-Curricular Activities and Interests

- Civil Engineering Class Representative (2021-2022) & Board of Directors Representative (2022-2023)
- Writer and layout manager at The Cannon Newspaper (2020-2022)
- Content creator – Engineers Without Borders, Sustainable Urban Systems (2020-2021)