

# Brian Tobing

Toronto, Canada • [brian.tobing@mail.utoronto.ca](mailto:brian.tobing@mail.utoronto.ca) • +1 (647) 894-2838 • [www.linkedin.com/in/brian-tobing](https://www.linkedin.com/in/brian-tobing)

## EDUCATION

### UNIVERSITY OF TORONTO

Toronto, Canada

BACHELOR OF APPLIED SCIENCE (BASc) OF CIVIL ENGINEERING + PEY Co-OP

2023 – May 2028 (Expected)

CGPA: 3.75; LATEST ANNUAL GPA: 3.93

NOTABLE COURSES: STRUCTURAL ANALYSIS (A+), SOLID MECHANICS (A+), CIVIL ENGINEERING MATERIALS (A+), CIVIL ENGINEERING GRAPHICS (A)

## PROFESSIONAL EXPERIENCE

### UNIVERSITY OF TORONTO

Toronto, Canada

#### Structural Engineering Research Assistance

May - August 2025

- Developed a greater understanding of solid mechanics and concrete reinforcement principles through testing the strength of fiberglass reinforced polymers (GFRP) as concrete reinforcement for its versatility and erosion resistance as opposed to steel alternatives
- Analyzed beam deformation for GFRP rods & stirrups (providing moment & shear support) under load till fracture point, conditioned to simulate performance under extreme temperatures and coastal exposures, to analyze practicability of GFRP reinforced concrete in different environments
- Completed Basic Health and Safety Awareness (BHSAT) & Lab Safety Trainings (WHMIS) to operate intricate lab tools.

### SHUN YUEN CONSTRUCTION LIMITED

Hong Kong

#### Project Coordinator

May - July 2024

- Managed construction of freshwater reservoir supplying 20,000 people, and multiple minor sites works and maintenance within Hong Kong International Airport
- Conducted daily inspections (day+night) of construction work, materials, and compliance with contractual agreements, submittals, and engineering drawings to ensure adherence to contract laws and standards.
- Participated and prepared for progress meetings, using **Microsoft Word**, **Excel** and **PowerPoint** to organize 200+ documentation, including RFIs, daily works record, staff information and soil ticket systems

## EXTRACURRICULAR EXPERIENCE

### UNIVERSITY OF TORONTO SEISMIC DESIGN TEAM

Toronto, Canada

#### Construction Manager

Jan 2024 - Present

- Manage team of 50+ to build a high-rise, wooden, seismic-resistance tower to compete in EERI SDC annually
- Host meetings, schedule programs and tasks using **Asana**, organize inventory/information using **Excel**, visualize and ensure constructability using **Revit**, prepare laser cut jigs using **AutoCAD**
- Results in 2025 Competition: 2<sup>nd</sup> overall out of 53 international universities

### UNIVERSITY OF TORONTO TROITSKY BRIDGE DESIGN TEAM

Toronto, Canada

#### Team Member

Sept 2024 - Present

- Collaborate with 6 peers to design-build a point load resisting bridge structure and compete against 33 teams
- Design and optimize the structure by analyzing load path using **Rhino3D**
- Results in 2025 Competition: 6<sup>th</sup> overall, 3<sup>rd</sup> in structural efficiency

### TWO PROJECT DESIGN TEAMS

Toronto, Canada

#### Leader / Project Manager

Sept 2023 - Apr 2024

- Led and managed team of 6 peers to redesign navigation system in Hart House; multi-use satellite office redesign in a UofT student residence with a \$300,000 budget
- Host weekly meetings, scheduled using **Gantt Project**, and produced 3D-model design using **Spline**
- Composed reports, proposed 3 designs and recommended 1 final solution, presented prototype to the client

## ADDITIONAL INFORMATION

- Language:** Fluent in English, Cantonese, Mandarin (Chinese)
- Technical Skills:** AutoCAD, SAP2000, Rhino3D, Revit, Python, Spline
- Management Tools:** Asana, Gantt Project, MS Office
- Certifications:** CS50 Introduction with Programming with Python (Harvard University)
- Awards:** \$7650 University of Toronto Excellence Award (UTEA); Dean's Honour List - 3 continuous semesters