

# Brian Tobing

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## 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

### UNIVERISTY OF TORONTO

Toronto, Canada

#### Structural Engineering Research Assistance

May - August 2025

- Tested structural specimens, collection of test data and analysis on the strength of fiberglass reinforced polymers (GFRP) as concrete reinforcement, while focusing on concrete bond behavior and the response of FRP-reinforced concrete beams and columns
- Subjected specimens under a variety of loads, with elevated temperatures caused by climate change and exposures such as from marine environment or other chemical environment

### 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

## DESIGN TEAMS

### 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

## COURSE 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

## PROJECTS

### PERSONAL WEBSITE

June 2025 - Present

- Developed a responsive portfolio website using Next.js, Three.js, and Chakra UI, featuring dark/light mode themes, interactive 3D models, and dynamic content management, utilizing **GitHub Copilot** for enhanced development efficiency
- Implemented advanced features including a custom photo gallery with zoom capabilities, smooth animations, and responsive layouts, demonstrating strong front-end development and UI/UX design skills

## ADDITIONAL INFORMATION

- Language:** Fluent in English, Cantonese, Mandarin (Chinese)
- Technical Skills:** AutoCAD, SAP2000, Rhino3D, Revit, Python, GitHub Copilot, Spline
- Management Tools:** Asana, Gantt Project, MS Office
- Certifications:** CS50 Introduction with Programming with Python (Harvard University)
- Awards:** \$7500 University of Toronto Excellence Award (UTEA); Dean's Honour List - 3 continuous semesters