

Young Choi

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Work Experience

- Land Surveying Assistant** | *Tarasick McMillan Kubicki Surveyors Limited* Apr 2026 - Aug 2026
- Utilized advanced **surveying technology**, including **Leica TS12**, **Geomax Zoom 95**, and **Carlson CRx total stations** and **Carlson BRx7 GNSS receivers**, to deliver highly accurate spatial data for **Surveyor's Real Property Reports**, **AS-built Reports**, and **property limits**
 - Proficient in **Carlson's Survce** software on **Carlson Surveyor 2**, **Carlson RT4**, and **Juniper Allegro 2 data collectors**
 - Conducted up to **3 distinct field operations** across the GTHA region daily, scaling from **large-scale construction sites** to **personal homes**
 - Collaborated effectively** in two-man crews, totalling a larger 12-person team to deliver precise outcomes on tight schedules
- CEAGES Executive** | *Civil, Environmental, Architectural, Geological Engineering Society @ UWaterloo* Jan 2026 - Apr 2026
- Selected as the only **first-year executive** of the ASCE / CSCE Student Chapter, **representing the junior student body**
 - Organized **large-scale networking events**, including a flagship Industry Night that brought together over **10 of Canada's largest civil engineering firms** and over **fifty students**, from first-years to graduating classes
- Lifeguard** | *The Lifeguard Company* | *Superior Pools Spa & Leisure* | *City of Toronto* June 2023 - Sep 2025
- Maintained and ensured the **safety of 30-50 swimmers** daily, enforcing facility regulations from opening to closing
 - Managed **daily pool chemistry and maintenance operations**, including vacuuming, backwashing, and performing chemical adjustments to ensure optimal water quality for both safety and comfort, in-line with municipal law
- Band Leader/Non Commissioned Officer** | *Royal Canadian Air Cadets* Sep 2019 - Sep 2023
- Directed and managed a 30-man military marching band on a weekly basis, including attendance tracking, and instrument organization
 - Led the ensemble to peak competitive performance, securing a podium placement at the provincial championship level
 - Instructed training modules on core cadet curriculum, including the principles of flight, and precision military drill

Skills & Awards

Skills: Total Station Surveying (GeoMax, Leica), GNSS Receivers (Carlson), Carlson Survce Software, Civil 3D/AutoCAD, Infracore, Excel, MATLAB, Collaboration, Initiative, Communication, HTML, CSS, AI Prompting

Certifications: LinkedIn Learning AutoCAD 2026, National Lifeguard (Pool), Standard/Emergency First Aid + CPR-C, WHMIS 2015

Awards:

- YIP Engineering And Science Scholarship** May 2025
- University Of Waterloo President's Scholarship** Mar 2025
- NASA HUNCH Critical Design Review Recognition** Feb 2025

Projects

- youngchoi.cc - Personal Website** | *Myself* Sep 2026 -
- Using previous **HTML** and **CSS** knowledge learned in high school with the combination of AI, I was able to develop a significantly better looking website (including javascript)
- Concrete Toboggan Mix** | *University of Waterloo Concrete Toboggan Team* Sep 2025 - Apr 2026
- Analyzed material properties and mix design components to formulate a specialized concrete mix, strategically selecting aggregates to optimize weight and increase overall structural performance
- UTG Proposal - New Residence Proposal at the University of Waterloo** | *University of Waterloo* Sep 2025 - Nov 2025
- Analyzed and interpreted real-world data using **automatic levels** and **total stations**, obtaining more than 100 data points
 - Utilized **Civil 3D** to create various shape files outlining curbs, buildings, and boundaries and applied these files into **Infracore** using skills learned in the civil engineering concepts course to propose a new residence
 - In-line with existing **by-laws** within the Waterloo region including: parking spaces, min/max gradients, etc.

Education

- University of Waterloo** Sep 2025 -
- BASc- Civil Engineering* | CGPA: 80.15%
- Clubs and Societies:** Concrete Toboggan Design Team, ASCE / CSCE Student Chapter @ UW
 - Awards:** President's Scholarship, Excellent Academic Standing
 - Relevant Courses:**
 - CIVE104/105/204 - Mechanics I, II, Solid Mechanics I
 - CIVE153 - Earth Engineering
 - CIVE241 - Transport Principles and Applications
 - CIVE265 - Structures and Properties of Materials