



SUMMARY OF SKILLS

- Highly adaptable at learning and understanding new procedures
- Strong in communication with experience documenting procedures and training new team members
- Familiar with Universal Design principles from Capstone team's public transit accessibility assessment
- Proficient in Microsoft Office, Autodesk AutoCAD and Inventor, MicroStation, ArcGIS, MATLAB, Python, AppleScript

EDUCATION

B.ENG. SPEC. HONS. GEOMATICS YORK UNIVERSITY TORONTO, ON 2016–2020

- Completed four-year Bachelor of Geomatics Engineering at York University
- Researched accessibility of subway stations based on CSA framework with Capstone project team
- Two-time team member at National Geomatics Competition investigating refugee settlement and LRT planning
- Took Fundamentals of Surveying and Geodetic Surveying courses with field school components
- Completed Urban Transportation: Introduction to Critical Issues in Year 4 with downtown Mobility Analysis

Projects

- **Universal Mass Transit Assessment System ("UMTAS")** — Developed accessibility assessment for public transit using CSA standards with Capstone team
- **A Proposal for a Height Network Design for The Swiss City of Bern** — Researched and designed geodetic levelling procedure for lakes around Bern with team
- **3D Structure Reconstruction Using 3D Scanning** — Scanned building façade using LiDAR and then rebuilt it in 3D space with team members
- **Mobility Analysis** — Completed transportation inventory of block southeast of Yonge-Dundas Square with on-site observations
- **Drought Monitoring Using Multi-Year Remote-Sensing Data and Vegetation Indices** — Researched wetness-to-vegetation index for satellite imagery in Grasslands National Park with team
- **Transportation Justice** — Successfully developed transfer count map for Toronto and accompanying processing software with team
- **Programming of GPS Navigation Solution** — Wrote, with team, mock GPS receiver code and presentation on how GPS receivers work in different situations
- **Software Utility for 3D Control Network Adjustment** — With team, developed Python survey observation adjustment software package. Wrote file reader.
- **Satellite Navigation Systems: QZSS** — Wrote and gave presentation with partner on Japan's Quasi-Zenith Satellite System
- **Studies of the Earth's Deep Interior** — Researched world's deepest holes with partner for geophysics presentation on studies of the Earth's interior
- **Hyatt Regency Walkway Collapse** — Created presentation with team on disaster and ethical issues arising therein
- **Music and Branding: A Chapter Proposal** — Textbook chapter proposal on commissioned music with Western Art, World, and Popular music examples
- **Autonomous Delivery Drones: A Feasibility Study Through the Lens of Amazon Prime Air** — Researched uses of Amazon Prime Air and other autonomous delivery drones for feasibility study with team

Awards

- AOLS LE/ESSE 4670 Survey Law, Geomatics Engineering Award for highest grade in 2020
- Cansel Award for leadership in Geomatics community 2019 and 2020
- AOLS David W. Lambden Award, Geomatics Engineering for highest grade in Cadastral Studies 2019
- AOLS 3rd Year Highest Aggregate GPA Geomatics Engineering Scholarship 2018
- AOLS 2nd Year Highest Aggregate GPA Geomatics Engineering Scholarship 2017
- 2016 Entrance Scholarship

OSSD

HENRY STREET HIGH SCHOOL WHITBY, ON 2012–2016

Awards

- Gold in Durham Architectural Skills design competitions 2015 and 2016
- Grade 12 awards in Instrumental Music, Physics, Technological Design, and Arts extra-curricular contributions
- Governor General's Academic Medal for highest average in Grade 11 and 12

JOB EXPERIENCE

GEOMATICS SURVEYING ASSISTANT TORONTO TRANSIT COMMISSION TORONTO, ON SUMMER 2019

- Compiled CAD mapping data
- Performed field edits to check contractors' surveys against reality
- Assisted with surveying tasks in the field
- Wrote VBA add-ins to streamline MicroStation data-entry and to enforce CAD standards

STUDENT FIELD TECHNOLOGIST ROUSE SURVEYORS INC. TORONTO, ON SUMMER 2018

- Prepared TTC safety documents and marked out subway tunnels for construction project
- Set up and ran total station for topographic and boundary surveys, and assisted and learned from party chief
- Communicated with clients and prepared and sent estimates for jobs

OFFICE ASSISTANT ST. ANDREW'S PRESBYTERIAN CHURCH WHITBY, ON SUMMERS OF 2015, 2016, & 2017

- Managed rentals, announcements, and messages in church office
- Organized back-to-school giveaway and assisted in running Food Bank Fridays
- Compiled and edited various short movies for church events
- Researched pricing options, migrated office from Microsoft Office 2010 to Office 2016, and trained new users

VOLUNTEER EXPERIENCE

TECHNICAL DIRECTOR YORK UNIVERSITY ENGPLAY TORONTO, ON 2019–2020

- Designed and led setup and teardown of lighting and sound equipment and stage
- Designed lighting for different scenes and programmed lighting board
- Ran sound board during show and assisted in lighting control

CHIEF OPERATIONS OFFICER YORK UNIVERSITY GEOMATICS CLUB TORONTO, ON 2018–2020

- Piloted visit to local high school and member of team that visited high schools to promote Geomatics at York
- Booked and prepared rooms for Geomatics Club events, such as Geomixer, and helped to promote Geomatics
- As Operations Officer for Geomatics & Civil Engineering Career Fair 2019 and 2020, contacted companies and set up event
- Worked with other club members, staff, and faculty to have Geomatics-themed events for students

GEOMATICS VOLUNTEER LASSONDE SCHOOL OF ENGINEERING TORONTO, ON 2016–2020

- Discussed what Geomatics at York is like to prospective students at Campus Days and at Ontario Universities' Fair
- Represented Lassonde Geomatics by volunteering for Geomatics workshops at Lassonde Discovery Days
- Compiled and designed activities for visiting high school to demonstrate geomatics concepts

TECHNICAL DIRECTOR HENRY STREET HIGH SCHOOL WHITBY, ON 2014–2016

- Listened to event organizers' needs and determined setups for events as a stage manager, technical director, and lighting operator for school plays
- Managed team members as team captain and trained new members

AUDIO-VISUAL TECHNICIAN ST. ANDREW'S PRESBYTERIAN CHURCH WHITBY, ON 2011–PRESENT

- Operates and troubleshoots sound and computer systems before and after service
- Researched, recommended, and set up live-stream equipment and software for weekly services
- Created schedule and managed team members during summer while music director was on sick leave