

Thomas Charky

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Summary of Qualifications

Software: Revit, AutoCAD, QGIS, Excel, Python, Java, MATLAB

On Site: CCIL, Working at Heights, Surveying (Total Station, Theodolite and Automatic/Laser Levels)

Laboratory: Proctors, Hydrometer, Atterberg Limits, Grain size, Concrete & Mortar Compressive Tests

Construction Management: Estimating and Pricing, Tendering and Subcontract Negotiations

Work Experience

Estimating Student | PCL Constructors, Inc. Jan 2020 – Apr 2020

- Interpreted engineering and architectural plans to perform site-wide takeoffs for hundred-million-dollar projects in solar and residential departments for civil, electrical, and architectural scopes.
- Negotiated contracts and managed subcontract tenders for multiple photovoltaic solar projects worldwide.
- Reduced takeoff time by **30%** using Microsoft Excel to insert and optimize conversion formulas.
- **Ranked as a top company co-op** (Jim Brown Award Finalist) and BEAM Award Recipient.

Field Technician | Chung & Vander Doelen Engineering Apr 2019 – Sept 2019

- Liaised with site supervisors and used engineering drawings to convey inspection results in the construction of **multi-million dollar projects**, including additions to the Bruce Power plant and 60 Frederick Street, Kitchener.
- Advised site supervisors on further action to ensure safety and proper coverage based on results of various tests.
- Utilized theodolite, laser level and heavy machinery to perform structural plumb & torque inspections.

General Worker | Home Hardware, Inc. May 2018 – Aug 2018

- Applied trade skills to plumbing, carpentry and electrical problems, maximizing client satisfaction.
- Ensured every customer was accommodated by communicating effectively and patiently with clients who had English language barriers or hearing impairments.
- Single-handedly assembled and repaired motorized lawn equipment and barbecues under tight deadlines.

Other Relevant Experience

Beaver Pond pH Survey | QGIS & Python Personal Project Apr 2020

- Processed pH field data using Python and Microsoft Excel then mapped and interpolated the readings in QGIS 3.4.

Galleria Fiorentina | Revit Personal Project Aug 2019 – Sept 2019

- Used **Autodesk Revit 2020** to design a sample rebar schedule, a mezzanine and a 3D render of a foyer.

LID Parking Lot | University of Waterloo Sept 2018 – Dec 2018

- Used a Sokkia Total Station and Excel to create **AutoCAD maps** and an FSR for a Low Impact Development parking lot.

Secretary General | PeelMUN Dec 2017

- Collaborated to lead team in hosting a regional Model UN conference with **70+ attendees**.
- Organized and ran marketing campaigns on multiple social media networks to maximize attendance.

Education

University of Waterloo Class of 2023

- Candidate for Bachelor of Applied Science in Civil Engineering, Term 2B.
- 2B course topics include sustainability, structural mechanics, economics and fluid mechanics.
- Attained **1st Quartile rank** in Term 2A.