

Youssef Rabay

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Citizenship: Canadian, Lebanese

EDUCATION

Master of Engineering, Civil Engineering

Jan 2021 - Sep 2022

University of Toronto – Faculty of Engineering, Toronto, Canada

- Cumulative GPA: 4.00 / 4.00
- Emphasis in Construction Management & Entrepreneurship, Leadership, Innovation and Technology in Engineering

Bachelor of Engineering, Civil Engineering

Sep 2017 - Dec 2020

McGill University – Faculty of Engineering, Montreal, Canada

- Cumulative GPA: 3.79 / 4.00

PROFESSIONAL EXPERIENCE

Real Estate Analyst, Part-time

Sep 2022 - Jan 2023

Real Estate Analyst Intern

May - Aug 2020

Asb Properties, Jacksonville, Florida, USA

- Determined strategic locations to expand the company's largest self-storage facilities network in North Florida
- Evaluated 70% of the company's target properties in Jacksonville using key industry metrics
- Got involved in leasing by preparing all necessary documents and communicating professionally with the client
- Performed a feasibility study on the implementation of a \$6.5M bowling alley "Beach Bowl" in the city's densest region

Field Construction Intern

July - Aug 2019

Srouji Establishment for Contracting, Beirut, Lebanon

- Coordinated the mobilization and execution of construction works with the project team
- Boosted shop drawings accuracy by 20% through an inspection of contract documents, drawings and specifications
- Designed a beam of a two-storey building with reference to the local building code

Academic Tutor

May 2020 – Dec 2022

Académie du Succès, Montreal, QC, Canada

- Provided online academic support for students (9-20 years old) in mathematics and physics
- Achieved an overall student average grade improvement of 13%

ACADEMIC PROJECTS

International Business - EV Charging Infrastructure in India

May - June 2022

- Proposed the implementation of a charging station infrastructure for EVs along India's most extensive highway (NH44)
- Applied international business tools to evaluate the company's competitive advantage and its potential success abroad
- Validated the long-term profitability of the project by forecasting CAPEX, OPEX and revenues
- Integrated social goals in the business model to drive business growth and maximize social impact

Computational Project in Financial Engineering

Jan - Apr 2021

- Formulated a LP model using MATLAB to find the lowest cost bond portfolio that covers a set of liabilities spread over 6 years
- Proved that by adding a 50% and a 25% constraint on risky bonds, the optimal bond portfolio cost increased by 11.2% and 19.6%, respectively, while the level of risk decreased
- Computed the geometric expected return and standard deviation of 3 ETFs (SPY, GOVT & EEMV) between 2014 and 2021
- Generated the efficient frontier of the 3 assets and recommended short selling to the client

Project Management Plan - Farm Renovation

Sep - Dec 2021

- Elaborated on all project management knowledge areas for the renovation of an old family-owned farm in Quebec

Bridge Replacement Design Project

Sep - Dec 2020

- Led a team of 5 to undertake a complete design for a bridge replacement of Highway 417 in Ottawa
- Was chosen from 20+ teams to represent McGill University at the CSCE National Capstone Design Project Competition

EXTRACURRICULAR ACTIVITIES

Participated in the following open access virtual programs:

- Boston Consulting Group Virtual Consulting Experience (2020) – 26 hours
- KPMG Virtual Internship Experience (2020) – 28 hours
- Financial Trading & Investment by Shaw Academy (2020) – 40 hours

SKILLS & INTERESTS

Languages: Fluent in English, French and Arabic with Intermediate Knowledge in Spanish

Computer Skills: C, C++, MATLAB, AutoCAD, Revit, LabView, Microsoft Office (Word, Excel, Project and PowerPoint)

Relevant Courses: International Business for Engineers, Financial Management for Engineers, Financial Engineering, Project Management, Human Resource Management, Asset Management

Interests: Tennis (Advanced Level), Ski, Swimming, Car Trading, Travelling