



Summary of Qualifications

- Proficient in designing and drafting electrical systems using Revit and AutoCAD
- Extensive knowledge of solar PV systems, electrical systems, and building management systems
- Able to compile and analyze big data related to energy production and consumption
- Experienced in technical report writing from authoring multiple energy audit reports, site instructions, addendums, and financial analysis reports
- Developed strong communication skills from working with municipalities, contractors, and consultants

Skills

Engineering: Revit, AutoCAD, MatLAB, Visual Lighting

Programming: HTML, CSS, Javascript, React

Work Experience

Junior Electrical Designer

Sep 2018 - Aug 2019

Smith + Andersen , Toronto, ON

- Designed 3D electrical system layouts for universities, hospitals, office spaces, and suites for clients using Revit
- Drafted interior lighting layouts and performed lighting output and distribution calculations using Visual Lighting
- Designed single line diagrams (SLD) and life safety systems using AutoCAD and Revit
- Performed load calculations in order to properly size circuit breakers, cables, and electrical panels

Electrical Engineering Intern

Jan 2018 - Apr 2018

Urban Green Energy , Toronto, ON

- Designed single-line diagrams for micro-grid solar energy storage systems and drafted 2D array layouts and site plans for multiple solar farms using AutoCAD
- Conducted simulations for solar PV systems on rooftop and solar farms using a simulator software to calculate potential energy production and performance ratio accounting for energy loss factors
- Performed financial analysis to compare the performance and cost efficiency between tracker types

Energy Management Intern

May 2017 - Aug 2017

City of Brampton , Brampton, ON

- Performed data analysis related to energy use and facility costs of city buildings using Excel and Asset Planner
- Reviewed City of Brampton's Energy Conservation and Demand Management Plan and assisted in building strategies to meet Ontario Provincial Regulations
- Able to work independently from performing energy audits at multiple sites and collecting inventory

Education

University of Waterloo

Candidate for Bachelor of Applied Science, Environmental Engineering

- **Recipient of:** WATPD-Engineering Entrance Scholarship and President's Scholarship
- **Senior Capstone Project:** Developing an Energy Efficient Design for the Clarkson Wastewater Treatment Plant
- **Relevant Courses:** Low Energy Building Systems, Energy and the Environment, Energy Conversion, Electrical Engineering, Energy Systems Engineering