

Seungkyu Lee

3A ENVIRONMENTAL ENGINEERING

405-1438 Parkway Blvd, Coquitlam, BC V3E 3M1

☎ 647-989-6246 | ✉ s424lee@edu.uwaterloo.ca

Summary of Qualifications

- Experienced in technical report writing from preparing RFQs and authoring multiple energy audit reports and financial analysis summaries
- Able to compile and analyze big data related to energy production and consumption, water flow, and contaminant chemical concentration
- Extensive knowledge of solar PV systems, contaminant remediation by chemical oxidation, and wastewater treatment processes
- Gained experience in construction work from surveying multiple pumping stations and wastewater treatment plants
- Developed strong communication skills from working with municipalities, contractors, and consultants
- Proficient in AutoCAD, Revit, MATLAB, Helioscope, PVsyst, Microsoft Excel, Word, and Powerpoint

Work Experience

Electrical Engineer Intern

URBAN GREEN ENERGY

TORONTO, CANADA

January 2018 – April 2018

- Designed single-line diagrams for micro-grid solar energy storage systems and drafted 2D array layouts, site plans, and SCADA communication plans for multiple solar farms using AutoCAD
- Conducted simulations for solar PV systems on rooftop and solar farms using Helioscope and PVsyst to calculate potential energy production, performance ratio, and energy loss factors.
- Performed financial analysis to compare the cost efficiency between dual-axis trackers, single-axis trackers, and fixed-tilt panels for specific regions in Ontario.

Energy Management Engineer Intern

CITY OF BRAMPTON

BRAMPTON, CANADA

May 2017 - August 2017

- Performed data analysis related to energy use and facility costs of city buildings using Microsoft Excel and Asset Planner
- Reviewed and assisted in ensuring that City of Brampton's Energy Conservation and Demand Management Plan meets Ontario Provincial Regulation 397/11
- Displayed strong oral communication skills from preparing and presenting energy saving business cases to various departments
- Able to work independently from performing energy audits at multiple sites and collecting inventory

Research Assistant

UNIVERSITY OF WATERLOO

WATERLOO, CANADA

September 2016 – December 2016

- Gained experience in field work through extraction of contaminated groundwater from wells and equipment set-up in CFB Borden
- Conducted ion chromatography analysis, persulfate and permanganate measurement, electrical conductivity measurement, and compiled several sets of data for graduate research
- Developed PowerPoint presentations consisting of breakthrough curves and tomograms of electrical conductivity values over time created using Excel and Tecplot
- Prepared and maintained equipment such as the differential GPS, flowmeter, and dataloggers for both field and lab work purposes

Planning Manager Assistant

HANSHIN ENGINEERING

HUE CITY, VIETNAM

January 2016 – April 2016

- Authored detailed reports pertaining to the mechanical and biological processes of the wastewater treatment plants
- Performed quantity take-offs of materials using AutoCAD drawings to assist in project budgeting
- Performed quality control to ensure the elevation and coordinates were accurate on legal contract drawing through surveying

Education

University of Waterloo

CANDIDATE FOR BACHELOR OF APPLIED SCIENCE, ENVIRONMENTAL ENGINEERING

WATERLOO, CANADA

September 2015 - present

- Relevant Courses: surveyed field labs using total stations and differential GPS, MATLAB and AutoCAD labs, air quality engineering courses, energy efficiency courses, and hydrology and hydrostatic concept courses