

Jose Correa

Green Tech Engineer | 15+ years

Vancouver, BC V6P 5Z9

778-513-3300

jluccorrea@gmail.com

[LinkedIn](#)

Skills & abilities

- Green building design engineering.
- SQL (MySQL).
- Python (Pandas, NumPy, Matplotlib).
- Tableau.
- Microsoft Power BI.
- Excel (VLookup, Conditional Formatting, Pivot Tables).

Education

- LEED AP O+M, 2011.
- M.Sc. Environmental Design and Engineering. University College London (UCL), 2008.
- Mechanical Engineer, National University of Colombia, 1998.

Communication

- Ability to communicate complex ideas to interdisciplinary teams.
- Active listener and questioner.
- Ability to present results and strategies, verbally and in writing.
- A compelling storyteller.

Teamwork

- Collaborate effectively to achieve the team's goals.
- Ability to delegate tasks and leverage on the team's expertise.
- A systematic thinker with attention to detail.
- Strong self-motivation.
- Thirst for knowledge.
- Active in professional networks.

15 years' experience in Green Design Engineering, with a focus on energy modelling and data analytics. Passionate about harnessing the power of companies' data to fuel business growth and establish sustainable solutions for tomorrow's challenges.

Projects

My portfolio projects, [link](#).

NYS Residential Homes Energy Efficiency - Personal Project, [link](#). August 2023

- Applied MySQL to analyze 56,000 energy efficiency projects in New York and gain insights on Residential Existing Homes energy-efficient improvements.
- Extracted data from different related tables using: temp tables, string functions, store procedures and subqueries, among others.

Agri-food CO2 emission - Personal Project, [link](#). July 2023

- Applied Python for exploratory data analysis, data cleaning and visualization on 7,000 CO2 emissions records linked to agricultural food production.
- Aggregated and visualized the data by using pandas and matplotlib.

Canada Electricity Generation dashboard - Personal Project, [link](#). June 2023

- Created a dashboard with Power BI which delves into the monthly provincial electricity generation in Canada.
- Transformed and filtered data to improve reporting process.

World Air Quality Index dashboard - Personal Project, [link](#). June 2023

- Utilized Tableau to provide maps with informative visualizations into the air quality values for any country.
- Connect to and fetch data from spreadsheets.

Electric Cars dashboard - Personal Project, [link](#). May 2023

- Created a dashboard with Excel to provide at-a-glance visibility of car prices per manufacturer, battery capacity, and acceleration type.
- Processed dataset by using Excel to ensure data completeness and validity.

Experience

Building Performance Analyst - MCW Feb 2022 - Feb 2023

- Linked Python and the modelling software API to streamline input information.
- Learned software tools to integrating Revit and modelling software.
- Analyzed complex data sets to optimize energy efficiency and sustainability.
- Performed energy modelling, daylighting, thermal comfort, and envelope performance analysis for reduction in building carbon emissions.

Energy Modeller - Reinbold Group Jun 2020 - Dec 2021

- Created Excel dashboards to visualize energy modelling team workload.
- Participated in design meetings and assist the design team achieving energy efficiency targets.
- Gathered, cleaned, and processed data for energy modeling projects.

Senior Building Performance Engineer - AME Group May 2018 - Jan 2020

- Conducted energy simulations, identified patterns, trends, and anomalies in data to make informed decisions.
- Created Excel pivot tables to communicate insights effectively to the design team.