

EDUCATION

Earth and Environmental Science (BSc) -- University of Michigan, Ann Arbor, MI

WORK EXPERIENCE

Jan. 2022 – Present

PROJECT MANAGER – GZA GEOENVIRONMENTAL

OAK BROOK, IL

Diverse work supporting project-related data and IT solutions company-wide. Primary project focus on greenhouse gas accounting, supply chain sustainability surveying, and air permitting/modeling, specializing in data visualization, integration, and accessibility for internal and external stakeholders.

- Serve as a technical resource and project manager supporting data management, analysis, transformation, and visualization leveraging a blend of software within the sustainability and environmental space.
• Specialized in problem-solving: understanding and remedying pain points of internal users or clients by developing integrated and automated data-driven solutions.
• Passionate about removing barriers and bottlenecks to accurate data and enabling all levels of end-users to confidently navigate multi-source relational data to draw conclusions.

Skills: Python, PowerBI, Sharepoint, PowerApps, Power Automate, VBA, Excel, SQL (SSMS, SSRS), HTML, CSS, JS

Additional: Innovation Committee Lead, Data Practice Area Lead – Integration & Access, 401k Committee Member

SELECTED PROJECT WORK

Sustainability Projects Management and Tracking Application

- Overhauled Excel-based system for tracking operational global sustainability opportunities, implementations, investments, and metrics for a Fortune 50 manufacturer, utilizing the Microsoft platform.
• Integrated new system within existing ecosystem, tying in historical sustainability KPIs and roadmaps.

Salable Upstream Scope 3 Calculator

- Assisted in development of an Excel-based calculator utilizing USEEIO v2.0 matrices to calculate upstream Scope 3 emissions from supply chain spend data. More information: https://www.gza.com/gza-scope-3-calculator-v20
• Developed the webpage, marketing strategy, and Shopify platform to automate external sales of the calculator.

Scope 1 & Scope 2 Data Collection Automation and PowerBI Dashboard

- Created GHG accounting data collection solution, standardizing data entry, automating QAQC, reporting, and visualization for a multi-state, multi-divisional US-based utility.
• Dynamic dashboard enables corporate executives and environmental personnel to evaluate progress towards GHG reduction goals. Annual updates are fully automated, allowing agile response upon year-end.

Dynamic Use Phase Modelling to Aid in Establishing Achievable Near-Term SBTi Targets

- Engineered future-proofed solution for SBTi-compliant Scope 3 modeling at a manufacturing conglomerate.
• Configurable dynamic workbook provides sustainability executives with the ability to fine-tune changes to manufacturing outputs while considering macro-organizational variables.

ENVIRONMENTAL SCIENTIST – TETRA TECH

ANN ARBOR, MI

Jan. 2017 – Jan. 2022

Served as a regulatory reporter under General Motors' comprehensive environmental compliance program.

Prepared and validated the accuracy of corporate site environmental data through Excel documents, SQL databases, and custom project software. Applied knowledge and understanding of air, water, and waste permits and regulations in the US, Canada, Mexico, and Brazil. Acted as lead compliance analyst for facilities in Texas and Ontario, submitting accurate and timely reports, such as: Title V, MACT, annual air reports, EPCRA Tier II, TRI Form R, Greenhouse Gas Report, NPRI.