

GABRIELA SHAJI EZHUPARAYIL

GRADUATE ENVIRONMENTAL ENGINEER - Wastewater Systems, & Environmental Monitoring

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SKILLS

- **Environmental Monitoring:** Environmental sampling, air and water quality monitoring, field data collection
- **Water & Wastewater Systems:** Proficient with Stormwater management, & wastewater treatment processes
- **Site Assessment:** Environmental site inspections, contamination assessment, soil and groundwater evaluation
- **GIS & Spatial Analysis:** Spatial data analysis, watershed mapping, environmental data visualization
- **Technical Documentation:** Environmental impact reports, regulatory compliance documentation

WORK EXPERIENCE

Cosmetics Associate **May 2023 – Present**
Walmart *Ontario*

- Guided 40+ customers daily on product specifications and cosmetic safety standards, improving purchase decisions and overall customer satisfaction.
- Maintained inventory accuracy by auditing 200+ SKUs weekly, minimizing replenishment delays and ensuring consistent product availability across shelves.
- Processed 60+ transactions per shift using POS systems, achieving a 98% error-free rate while ensuring compliance with return and exchange protocols.

Junior Civil Engineer (Apprenticeship) **October 2021 – October 2022**
Kerala State Nirmithi Kendra *India*

- Designed AutoCAD site plans integrating stormwater drainage systems, erosion control features, and environmentally compliant layouts, supporting sustainable project approvals.
- Conducted 30+ site inspections focused on drainage performance, erosion risks, and adherence to environmental and construction regulations, implementing corrective measures to protect water resources.
- Evaluated material requirements for 10+ projects through resource efficiency and lifecycle impact assessments, supporting sustainable construction practices and reducing environmental footprint.

Intern **June 2021 – October 2021**
Sogos Builders *India*

- Prepared 25+ AutoCAD drawings emphasizing drainage system design, stormwater management layouts, and erosion control features, ensuring alignment with environmental compliance standards.
- Redesigned 10+ site and structural layouts to optimize stormwater flow, mitigate runoff, and enhance drainage system performance, ensuring compliance with environmental regulations and sustainability standards.
- Compiled and maintained 200+ environmental compliance records, drainage assessments, and risk evaluation reports supporting regulatory audits and environmental monitoring, improving transparency for inspections.

PROJECT EXPERIENCE

Multiple-Criteria Decision Analysis for Business Establishment **Kitchener–Cambridge–Waterloo Region**
GIS Analyst

- Applied MCDA and location-allocation modeling in ArcGIS 10.8, evaluating 200+ datasets for site suitability.
- Generated weighted raster maps prioritizing accessibility, demand, and competition, supporting urban expansion.

Stormwater Drainage Resilience Assessment Under Climate Change Scenarios – Regina, Saskatchewan
Stormwater Systems Analyst

- Developed hydrological model in EPA SWMM 5.2, simulating 50 to 100-year rainfall events under RCP scenarios.
- Conducted runoff & conduit capacity analysis, identifying vulnerabilities & recommending resilient drainage plans.

Development of Concrete Brick from Sustainable Materials **Research Project**
Civil Engineering Researcher

- Designed sustainable concrete mixes with recycled materials, conducting compressive strength and durability tests.
- Prepared technical report with methodology, lab results, & recommendations for eco-friendly construction practices.

EDUCATION

Masters in Environmental Engineering January 2023 – April 2024
University of Windsor, Windsor

Bachelors in Civil Engineering August 2017 – August 2021
APJ Abdul Kalam Technological University, India

CERTIFICATIONS

- WHMIS 2015
- Occupational Health and Safety Awareness Training - Ontario Ministry of Labour