

Nirali Gosai

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Summary

I am an enthusiastic graduate student seeking opportunity in Environmental Engineering divisions. I am keenly interested in progressively facing new challenges, discovering and applying knowledge skillfully in this field.

Education

- M.E. Environmental Engineering, Carleton University | January 2019.
GPA 3.58/4
- B.E. Environmental Engineering, L.D. College of Engineering | June 2016.
GPA 8.04/10

Languages

- English (Proficient)
- Hindi, Gujarati (Native Languages).

Experience

Research Student | Canada-India Center for Excellence (CICE), Carleton University, October 2018 to Current.

- The Canada-India Center for Excellence is an organization promoting and conducting research and training advancing the ties between both the countries.
- The Smart Cities Navigator project undertaken by the CICE team aids the potential companies providing services to get connected with the municipal corporations in order to undertake projects and provide services locally as well as internationally.
- Working for the Smart Cities Navigator and updating each of the selected city's information on current projects and development on the webpage.

- Analyzing and reporting the surface and ground water availability and quality for each city and the required treatment and required water distribution and management by considering the budget provided.

Project work | Arvind Mills Private Limited, India | January 2016 to June 2016.

- The topic was, “Removal of Chemical Oxygen Demand for Common Effluent Treatment Plant, Vatva, Ahmedabad, India by using Advanced Oxidation Process.” Worked with the project team for reduction in the COD level using the Fenton’s process for the Common Effluent Treatment Plant (CETP) wastewater, Vatva Phase-II.
- In order to carry out the Advanced Oxidation Process, attempts were made to determine the Chemical Oxygen Demand and several COD test were conducted. After the laboratory experiment by trial and error with different ratios, the optimum ratio was decided, and the observations were made on different size of samples with overall 86% reduction in the COD.

Intern | Arvind Mills Private Limited, India | June 2015 to August 2015.

- Arvind Mills Pvt Ltd is India’s largest textile manufacturer headquartered in Ahmedabad, India. Its location in Santej, Gandhinagar consists of the wastewater treatment plant following the ZLD (Zero Liquid Discharge) concept.
- Assisted in waste-water treatment plant operation with 17000 m³/day of incoming textile effluent. Performed laboratory works such as titrations, visual observations, preparing packing samples, recording the test results.
- Inspected facilities to monitor compliance with regulations governing substances such as water and wastewater. Maintained process parameters and evaluated process anomalies achieving the most efficient results of the removal of contaminants.

Projects

- Watershed development at the inner Niger Delta using GoldSim simulation software (2018).
- Wrote a literature review on “Switching from Alum to Polyaluminum Chloride” (2018).
- Wrote a literature review on “Solids removal in the Stormwater Ponds” (2018).
- Tailings management (Hazards and Solutions) and Resource Recovery from Acid Mine Drainage (AMD) (2018).
- Simulation of ground water and chloride concentration at the Borden landfill using Visual MODFLOW (2017).

Relevant Courses

Advanced water treatment, Environmental fate of organic pollutants, Contaminant Hydrogeology, Soil and water conservation engineering, Solid waste and mine waste management, Water quality and statistical methods for assessing the climate impact on water resources.

Plant Visits

Wastewater Treatment Plant, Rockland, Ontario, Canada, 2017

- Sequencing Batch Reactor (SBR)
- Aerobic Digestors

Wendover Water Treatment Plant, Wendover, Ontario, Canada, 2017

- Rotating Biological Contractor (RBC) Reactors.

Orgaworld Composting Facility, Ottawa, Ontario, Canada, 2018

- Organic waste shredding and natural composting using inoculant and water.

Participations

- Research and report on “Canadian Capabilities for trade and services in India”, submitted to the High Commission of India, Ottawa, Canada (2018) by the Canada-India Center for Excellence (2018).
- Volunteered at Gujarat Technological University (GTU) Techfest, Ahmedabad, India (2014).
- Volunteered for sampling at a constructed wetland in Ferme Agribet, St. Isidore, Quebec, Canada.