

**SUMMARY:**

Eager to apply skills and knowledge gained from the strong academic lab-work and fieldwork experience in an Environmental Technician role. Expertise in sample preparation, research, and analysis to determine condition, pollution, and hazards. Methodical and poised with a desire to apply knowledge of experimental techniques used in water sampling testing abilities to drive process improvement.

**EDUCATION:****Environmental Technician****SEP2017 – April2019**

Mohawk College, Hamilton, ON

**B.E. in Chemical Engineering****June 2012- May 2016**

Sarvajanic College of Engineering &amp; Technology, India

**WORK EXPERIENCE:****Petro-Canada gas station, Hamilton, ON****June 2017-Present**

Customer Service Representative

- Processed **POS transactions**, including checks, cash and credit purchases or refunds.
- Resolved issues with **POS systems, card readers and receipt printers** to prevent customer delays.
- Counted cash in register drawer to balance register at the beginning and end of shift.

**Aceto Chem Private Limited, Gujarat, India****June 2015- May 2016**

Laboratory Assistant

- Worked in R&D department determining **the quality** of the manufactured products.
- Performed various treatments and equipment to determine the quality of the dye including **Agitator Knuth Filtration, NSA -treatments, BOT treatment and SAT treatment**.
- Safely prepared reagents, compounds and lab test solutions.
- Carefully reviewed test results for accuracy.

**Common Effluent Treatment Plant, India****Dec 2015-Dec 2015**

Trainee Engineer

- Collected water samples to test **alkalinity, hardness, and residual** levels.
- Monitored **SCADA system** for problems and adjusted controls to maintain efficiency.
- Disinfected water with chemicals such as ammonia and chlorine in exact concentrations.
- Monitored **DCS** supported continuous plant operation.

**Anupam Rasayan India Ltd., India****June 2015-July 2015**

Trainee Engineer

- Gain significant knowledge of the process which is used in the manufacture of products like **Diazotization process, hydrolysis process, alkalization process**.
- Aware regarding all equipment which uses in manufacturing processes like **steam ejector, MEE and cooling tower**.
- Understand the concept of a **DCS** system and **SCADA** system.

**TECHNICAL SKILLS:**

Water sampling, Pollution analysis, Chemical engineering operation, ISO Standards, Fluid flow systems, Hazardous waste management, Quantitative and Analytical skills, Advanced knowledge of MS Office Suite, Lab work, Fieldwork, and Data collection, Project Management, SCADA System, DCS operation, ArcGIS system, Aspen plus, Bio-win, Gas Chromatography, Organic Chemistry, High Performance Liquid Chromatography(HPLC), Gas Chromatography, Mass Spectrometry, Designing of Plants, MATLAB, Excellent communication and Interpersonal skills.

**ACADEMIC PROJECT:**

- **Environmental capstone project under sustainable Hamilton - Burlington center for climate change management, Mohawk College, ON**

Explore the whole building and discuss the issue with stakeholders which they were faced regarding their waste.

Conducted waste **audit plan** and implementing **waste reduction plan**. Performed waste **audit** for 3 days. Collected data and found solution for them to how to separate the waste in different categories as per the **Hamilton waste management**.

- **Formulation of copper oxide Nanoparticles from copper waste and check its antibacterial properties, GTU**  
Extracted copper oxide from copper waste solution. Learned all the preparation method for Nanoparticles and performed **Nova Sol-Gel** method. Used **round bottom flask, pan** and **centrifuge machine** to prepared **CuO Nanoparticles**. Used various machines like **XRD, SEM** and **TEM** analysis to checked **particles size, shape**, and its **antibacterial property**.
- **BioWin model for Hamilton's wastewater treatment plant, Mohawk College, ON**  
Generated working model in **BioWin** of the plant considered **flows, splits** and **influent parameters**. Ran **SteadyState simulation** and also generated bar chart that included the **wastewater influent, effluent** and **sludge concentration** in terms of **TSS, VSS, TKN, TP**. In addition to this, ran a **dynamic simulation** for one day time period and generated one album page which included **wastewater influent and effluent** in terms of **BOD, TSS, VSS, TKN**, and **TP**.
- **GPS Navigation and Tree inventory project, Mohawk College, ON**  
Learned all procedures to use **GPS**. Prepared tables to identify 10 GPS points, **tree inventory** and also described them. Checked coordinate system into the setup system. Followed the Mohawk college map tap layers in the compass. Monitored the distance and direction shown by an arrow on the compass. Identified the point and tree measurements. Captured their locations on GPS unit. Transferred data from the **GPS unit** into a computer with the help of **Pathfinder office software**.
- **Surface and groundwater analysis, Mohawk College, ON**  
Collected samples from various locations. Prepared solutions to checked its **chemical, physical** and **hardness** and **corrosiveness** properties of samples. We used **turbidity meter, pH meter, centrifuge machine, conductivity meter** and **HACH spectrophotometer** for our results.

#### **Academic visits:**

- Burlington Wastewater Treatment Plant-Burlington, ON
- Burlington Water Purification Plant--Burlington, ON
- Bamroli Sewage Tertiary Treatment Plant-Surat, GJ, INDIA
- Mahavir Synthesis Pvt Ltd-Surat, GJ, INDIA
- Anupam Rasayan India Limited -Surat, GJ, INDIA
- Himani Organic Private Limited, Ankleshwar, GJ, INDIA

#### **Certificates:**

- Certificate of **Big Data Analysis**
- Certificate of **Workplace Hazardous Materials Information System (WHIMS)**
- Member of **Bharat Scouts and Guides**
- Member of **Ontario Society of Professional Engineers**

#### **Volunteering experiences:**

- Volunteered with Mohawk College in the event of **International Students Welcoming Orientation,2019**
- Volunteered with Mohawk College in the event of **Bay Area Climate Change Summit,2018**
- Volunteered as an **Event Manager** in the **GTU TECH-FEST,2015**
- Volunteered as a **CO- Convener** in the department technical festival **Chemclave,2K15**

**References are available upon request.**