

# DENIS FABRICIO VIERA REY

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## SUMMARY OF QUALIFICATIONS

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- Master in Chemical Engineering from the University of Ottawa
- Experience in brewery and food industry, research, and GMP/HACCP implementation
- Excellent communication and interpersonal skills
- Proficient in Microsoft Word, Excel, PowerPoint, SolidWorks, Autocad, and Matlab.
- Fluent in English and Spanish.

## EDUCATION

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### **MASc. Chemical Engineering**

University of Ottawa

Faculty of Engineering - Department of Chemical and Biological Engineering

Graduation date: July 2<sup>nd</sup>, 2020

### **BA. Chemical Engineering**

Escuela Superior Politécnica del Litoral (ESPOL)

Facultad de Ciencia Naturales y Matemáticas - Departamento de Ciencias Químicas

Graduation date: May 15<sup>th</sup>, 2015

## WORK EXPERIENCE

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### **Grocery Clerk, Loblaws**

April 2020 – Current job

- Receive inventories from warehouse
- Keep and fix counts of inventory while stocking on the shelves.
- Ensure proper shop floor walk is done daily

### **Teaching Assistant, University of Ottawa**

Period: January 2019 – April 2019; September 2019-December 2019

- Invigilate examinations for undergraduate courses
- Distribute, collect, verify, and sort examinations
- Ensure proper examination procedures are followed

### **Production Supervisor, (Sugar Industry), Sociedad Agrícola e Industrial San Carlos S.A. Ecuador**

Period: November 2016 - July 2017

- Responsible for controlling and monitoring production according to quality parameters and optimum process indicators of sugar cane processes
- Management of unit operations performance in the process
- Personnel management and decision-making during the day/night shifts

**Warehouse Assistant, (Brewery industry) Cervecería Nacional CN S.A. Ecuador**

Period: November 2014 - July 2015

- Custody of inventories in charge according to internal policies and procedures, and inspections of trucks with raw material (rice and malt)
- Check, clean, and keep inventory in Silos. Process of fumigation of the area where the raw material is stored according to the work plan
- Quality analysis of the raw material received by suppliers as malt and rice

**Chemical Engineer Intern, (Brewery industry) Cervecería Nacional CN S.A. Ecuador**

Period: April 2014 – November 2014

- Optimization of resources (water, time, chemicals and energy) of clean-in-place (CIP) procedures for fermentation and maturation beer tanks
- Quantification of extract losses in the Brewhouse and the plant
- Quality analysis to beer in-process and final bottled beer (bitterness, color, extract, alcohol)
- Determination of viability of yeast for reuses in the process

**Research Assistant, TRIAIRI S.A**

Project: Analysis and design of the extraction process of the Principles of the Sweeteners Stevia Rebaudiana Bertoni suitable for human consumption.

Period: June 2012 - October 2012

- Training on High-Performance Liquid Chromatography (HPLC)
- Investigation and determination of the principles of the sweeteners of the Stevia Rebaudiana Bertoni
- Design of the industrial process for the extraction of sweeteners.

## **TRAINING AND CERTIFICATIONS**

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- **INTERNAL AUDITOR HACCP** (2014)
- **HACCP SYSTEM IMPLEMENTATION** (2014)
- **SANITATION STANDARD OPERATING PROCEDURES (SSOP)** (2014)
- **GOOD MANUFACTURING PRACTICE (GMP)** (2014)
- **AUDITS OF WORK RISKS** (2013)
- **AUTOCAD 2D** (2013)
- **QUALITY MANAGEMENT SYSTEMS ISO 9001:2008** (2012)
- **SOLIDWORKS 2012** (2012)

## **AWARDS AND ACHIEVEMENTS**

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**Open Call 2016 (Scholarship)**, Secretaria de Educación Superior, Ciencia, Tecnología e Innovación (SENESCYT), Ecuador, 2016

## EXTRACURRICULAR ACTIVITIES

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### Lab Assistant

Period: October 2011 - December 2011

- Management of different laboratory equipment such as Kinematic, dynamic viscometers, distillation equipment, determination of smoke point, flash point, point of runoff, determination of ashes.

**Thesis degree and paper:** "Preparation and Determination of Antimicrobial Property of Cation-Exchanged Ecuadorian Natural Zeolite to be Used as Filler for Polyethylene and Polypropylene Matrices"

**DOI:** <https://doi.org/10.1007/s10924-017-1153-8>

Period: May 2013 - May 2015

- Equipment used; X-Ray Diffraction (XRD), Infrared Spectrometer by Fourier Transform Infrared (FTIR), Thermogravimetric Analyzer (TGA), Atomic Absorption Spectra (AAS), Universal Testing Machine.

**Book chapter:** Fabrication techniques of tissue engineering scaffolds

DOI: <https://doi.org/10.1016/B978-0-08-102563-5.00006-X>