



Elizabeth Alvarez Pérez

Passport: AS740872 | **Work permit:** French | **Date of birth:** 07/06/1991 |

Place of birth: Bello, Colombia | **Nationality:** Colombian | **Gender:** Female | **Phone number:**

(+33) 0768086070 (Mobile) | **Email address:** elizabeth.alvarez@univ-cotedazur.fr | **LinkedIn:**

<https://www.linkedin.com/in/elizabethalvarezperez/> | **WhatsApp Messenger:** +330768086070 |

Address: 28 Av. Valrose, 06200, Nice, France (Home)

ABOUT ME

MSc in Chemical Innovation and Regulation | BSc in Chemistry | Lean Six Sigma

Results-driven professional with 8+ years of experience in the chemical industry, specializing in adhesives, polymers, minerals, and cosmetics. Proven expertise in R&D, quality management (ISO 9001/17025/14001), continuous improvement (Lean Six Sigma), and production optimization. Skilled in SAP system management, statistical analysis (Minitab/JMP), and laboratory techniques (GC-MS, HPLC). Combines technical proficiency with project leadership to drive innovation and regulatory compliance.

WORK EXPERIENCE

 **GVS FILTER TECHNOLOGY S.P.A.** – BOLOGNA, ITALY

RESEARCH AND DEVELOPMENT INTERN – 01/09/2023 – 12/12/2023

- Conducted a curricular Internship focused on the development and chemical characterization of polymeric membranes, aligning with the principles of sustainable energy production.

 **NEROLI FRAGRANCES** – MEDELLÍN, COLOMBIA

CONTINUOUS IMPROVEMENT AND LABORATORY LEADER – 31/08/2020 – 15/09/2022

- Research and propose sustainable technologies to incorporate in the production process and product formulations.
- Provide ongoing training for personnel involved in microbiological testing to ensure they are up-to-date on the latest methods and best practices.
- Generate reports on plan compliance, implementation quality, and KPIs.

 **ABRASIVOS DE COLOMBIA** – MEDELLÍN, COLOMBIA

CONTINUOUS IMPROVEMENT, QUALITY, AND INNOVATION EXPERT – 31/12/2018 – 29/08/2020

- Support Research and Development processes in the formulation, development, and optimization of new products and processes.
- Implement the Abracol Continuous Improvement Program - Culture A.
- Standardize critical variables in the production of cutting discs and sandpapers.

 **AKZONOBEL** – MEDELLÍN, COLOMBIA

QUALITY AND LABORATORIES LEADER – 03/04/2015 – 15/11/2018

- Plan and implement the company's procedures, standards, and quality specifications.
- Ensure compliance with international and national standards for all production processes.
- Develop effective and sustainable methodologies for the recovery of non-conforming products using enzymatic degradation or chemical treatments.

 **AKZONOBEL** – MEDELLÍN, COLOMBIA

RESEARCH AND DEVELOPMENT ASSISTANT – 06/05/2015 – 05/06/2018

- Responsible for formulating, planning, and executing research projects, as well as process improvement and standardization.
- Evaluate and propose new suppliers or raw materials.
- Propose procedures for the recovery of obsolete material.

Project development: "In-situ characterization of acidic properties of catalysts for reactions of hydrocracking ".
Characterization of minerals with a high content of iron and heavy metals by the following techniques:

- Structural and composition properties (XRD-XRF)
- Thermal stability (Thermogravimetric Analysis)
- Textural properties and morphology (SEM-EDS)
- Acidic properties (TPD-ammonia)

EDUCATION AND TRAINING

21/09/2022 – 20/09/2024 Bologna - Barcelona - Faro , Italy
ERASMUS MUNDUS MSC. CHEMICAL INNOVATION AND REGULATION University of Bologna - University of Barcelona - University of Algarve

05/06/2019 – 18/12/2019 Medellín , Colombia
DIPLOMA IN POLYMER CHEMISTRY, PRODUCTION PROCESSES, INDUSTRIAL APPLICATIONS, AND FUTURE PROSPECTS. Universidad de Antioquia

Address Cl. 67 ##53-108, 050010, Medellín , Colombia | **Website** www.udea.edu.co

09/04/2008 – 14/10/2015 Medellín , Colombia
BSC. CHEMISTRY Universidad de Antioquia

Address Cl. 67 ##53-108, Medellín, Antioquia, 050010, Medellín , Colombia | **Website** www.udea.edu.co

LANGUAGE SKILLS

Mother tongue(s): **SPANISH**

Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
ENGLISH	C1	C1	C1	C1	C1
PORTUGUESE	B1	B1	B1	B1	A2
ITALIAN	B1	B1	B1	B1	B1
FRENCH	A2	B1	B1	B1	A2

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

SKILLS

Continuous Improvement

Lean Manufacturing and Lean Management | JMP Data Analysis Software | Statistical Software JMP | MINITAB (Statistical Software) | Organizational and planning skills | Decision-making | Analytical skills | Team-work oriented | Data collection, analysis and reporting | Dynamic coaching and leadership

Chemical characterization

Capacity planning and optimization | Global SAP system | Nuclear Magnetic Resonance (NMR) Spectroscopy | UV-Visible Spectroscopy | Polymerization | Gass Chromatography-Mass Spectrometry(GC-MS) | Physico-chemical analysis | Differential Scanning Calorimetry (DSC) | Electrochemistry

Industrial chemistry

Microsoft Office | Material Flow Analysis | Microsoft Excel | Infrared (IR) Spectroscopy | SEM, TEM, BET, XPS, XRD, FT-IR, XPS, UV-VIS, TGA, HPLC, ¹HNMR, ¹³CNMR | Laboratory Information Management Systems (LIMS) | Circular Economy | Analytical Chemistry | Statistical Process Control (SPC) | Polymer synthesis | Statistical Quality Control | Good command of SAP