Curriculum Vitae



Chemical Engineer Bachelor's degree Name: Carlos Ayrton López Arroyo Age: 23 years old Civil Status: Single Celaya, Guanajuato.

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PROFESSIONAL OBJETIVE:

As a graduated Chemical Engineer I want to form part of a work team, where I can develop me in a professional way, so my professional knowledge can make some benefits to their business, to my work team and my own professional development, looking to enhance my knowledge and experiences acquired in separation process (unit operations), chemical analysis and investigation of new methods of operation process, materials and technology.

PROFESSIONAL EXPERIENCE:

Hutchinson Autopartes México (Cortazar)

Date: 21/07/14 - 13/08/14

Job: Software Development

Job description: Job generated with the end of develop a software to register the entrance of the personal operators.

Achievements: Development of a software (clock checker) used on the production lines, with the help of a bars code lector, to register the assistance and the exit of the operator worker with their job's credential with the capacity of export a spreadsheet excel formatted with detailed information about every single operator data.

Carboquímica BLOCK S.A de C.V. (Salamanca)

Date: 14/01/20 - 20/05/20

Job: Production Department Resident

Job Description: Job created with the end of optimize a separation process of a distillation tower, to reduce the humidity of the products of distillation, to increase the quality of the solvency of the ink solvent or thinner (final product) using process simulation as the test environment,

Achievements: Humidity reduction of the toxic residue mixture with the end of nuke down the azeotropic interaction of water-n-propanol that was harming the quality of the final product. With the modification of the operation of the distillation tower using techniques of the fractional distillation in continue and semi continue process.

Carboquímica BLOCK S.A de C.V.

Start Date: 20/05/20 - Actual job

Job: Production Engineer

Job Description: As a second production engineer, my task is to watch the process and generate an action plan in case of any perturbation detected and that compromises the quality of the final product, also in addition to work with toxic residue mixtures with a high percentage of humidity (20%+) with the end of reduce the interaction of the binary and ternary azeotrope using extractive distillation and decantation as primordial methods to delete the maximum possible percentage of alcohols and humidity present on the said mixture. So primary products of high solvency can be generated to make thinner formulations of high quality, also upgrading at the extractor at their maximum efficiency without the need

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of a fresh stream. Also checking the quality of the new methods using process simulation as the first stage testing environment.

Achievements: Reduction of the inventory of the toxic residue mixtures with high percentage of humidity to generate products with a maximum humidity of 3.90% following the specifications of the client, generation also a residue stream ready for the correct treatment as water residual, recovering also up to 90% of the extractor substance and a viable economic process.

LABORAL INTERESTED AREAS:

- · Petrochemistry (Refining)
- Materials/Polymers in general
- Sales
- Process

ACADEMIC TRAINING:

Chemical Engineer Bachelor's degree with materials specialty

Time frame: 2015-2020

University: Tecnológico Nacional de México, Instituto Tecnológico de Celaya

COURSES AND DIPLOMAS:

Institution: Tecnológico Nacional de México en Celaya, Departamento de Ingeniería Química

Course name: XXX Seminario Internacional de Ingeniería Química

Date: from 08 to 12 of January 2018

Institution: CFE

Course name: Seguridad en actividades con energía eléctrica (Riesgos eléctricos/Clasificación de áreas de

riesgo)

Date: 21 of February 2020

Institution: Salamanca Ayuda Mutua Industrial A.C.

Course name: Prevención, Control y Respuesta a Emergencias

Date: 24 of January 2020

TECHNIC PROFESSIONAL KNOWLEDGE:

LANGUAGES: English: speaking 75%, writing 75%, translation, 75% (B1 Level)

German: speaking 35%, writing 35%, translation, 35% (A1.2 Level)

COMPUTING SOFTWARE:

- Microsoft Office 365 (Word, Excel, PowerPoint, Access, Visio, OneDrive).
- Microsoft Visual Studio.
- GSuite (Google Suite).
- ASPEN ONE (HYSYS and PLUS)
- Programing Language: C, Python, MATLAB, Mathcad y LUA scripting.
- Software development for process simulation (<u>Python</u> y <u>MATLAB</u>)

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