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| ***CV – Process Engineer*** | Alberto LOZANO |

### **Personal Details**

* ***E-mail*  :**🖂 alozanoballesteros@hotmail.com
* ***Date of Birth*  :**Madrid, 13 August 1977, Spain.

#### Professional Experience

* **2007-present**: **« KBC Advanced Technologies »,** London, UK.

***Process Consultant***:

* + Scheduler Manager in a new refinery within a O&M contract supervising a team of 10 people.
    - Refinery monitoring. Blending optimization. Operations instructions. Scheduling weekly plan.
    - Implementation and development of Forward. Writing working procedures.
    - Implementation in Forward of LP crude data vectors and units submodels.
    - Building and updating CDU, RFCC and CCR LP Utilities in Petro-SIM and data templates.
    - Generation of LP crude assays and sub-models vectors with Petro-SIM LP Utility for LP Princeps.
    - Synthesis of crude assays. Monitoring of crude quality. Update of LP using flash assays.
  + Fuel Oil Destruction Study. Refinery wide including a syngas model.
  + Pre-Configuration study for a new refinery. Cost estimations. Technology screening.
  + Petro-SIM on-site training for a European Refinery.
  + On-site implementation of refinery and units. Training and coaching of users. Visbreaker and Catalytic Continuous Reformer calibration and modelling.
  + HTRI design of heat exchangers within a CDU-VDU FEED project.
  + Rigorous tube-by-tube modelling of thermal cracker and visbreaker furnaces. Technical assistance to a chemical additives supplier. Client contact for support and queries.
  + Profit Improvement Program. Refinery simulation. Data collection. Profit Opportunities evaluation.
  + Feasibility study for two vacuum columns. Rigorous furnace modelling. HTRI heat exchangers simulation. Evaluation of opportunities.
  + Modelling of a FCC Gas Plant for a debottlenecking feasibility study.
  + Refinery-wide Modelling & Simulation of a refinery, as part of a Euro IV/V Clean Fuels feasibility study.
  + Others: Sales support, new product line initiatives, development of best practices for refinery wide modelling, software developing support, and contact with clients and business partners.
* **2005-2007,** nineteen months: **« Axens, *IFP Group Technologies* »,** Paris, France.

***Process Engineer***:

* + Process design and basic engineering for grass-roots and revamped gasoline desulphurisation units. Preparing Process Data Book and Start-up Instructions.
  + Co-ordination of project in liaising with Clients and Engineering contractors
  + Process simulation. Heat and Material balances. Design and specification of equipment and piping. Development of PFD &P&ID.
* **2003-2004,** nine months: **«IFP, *Institut Français du Pétrole* »,** Lyon.

***Training IFP-School***:

* + Modelling & Simulation in Pro II of propylene production unit integrated in a Refining & Petrochemical complex.
  + Reactions kinetic modelling.
  + Monitoring of the pilot unit.
  + Catalytic tests.
* **February-July 2003,** six months: **«IFP, *Institut Français du Pétrole* »,** Lyon.

***ETSII&CPE Final Project:***

* + Adaptation of a CCS FORTRAN simulator program to case study for a Simulated Countercurrent System (CCS) separation unit.
  + Modelling & Simulation of the CCS separation based on difference of speed diffusion for isomeric hydrocarbons.
  + Proposal of an adsorption model in liquid phase and complete saturation for two hydrocarbons and a dissolvent. Validation and boundary of the model.
  + Obtaining of yields and evaluation of the feasibility in the implantation of such CCS unit into an isomerisation process for C7-C8 linear hydrocarbons.

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| ***CURRICULUM VITAE*** | Alberto LOZANO |

## **Education**

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| * 2003-2004  : | IFP-School*, Ecole de Pétrole et des Moteurs,* Paris, France.  **MSc** degree in **Refining, Engineering and Construction, Gas.**  Cursus: **“Sandwich Training”**(alternating periods at school and industry)  Engaged by the **IFP*, Institut Français du Pétrole.*** Language: French. Duration: 17 months. |
| * 2002-2003 : | CPE-Lyon*, Ecole Supérieur de Chimie Physique Electronique,* Lyon, France.  Erasmus Student in Chemical Engineering special field Environment. Overal Grade B. |
| * 1995-2002 : | UPM*, Universidad Politécnica de Madrid,* Spain. ETSII*, Escuela Técnica Superior de Ingenieros Industriales.* Degree: Industrial Engineer, special field Chemical Engineering.  Overal Grade B. Final Project Grade A. |

#### Other achievements and courses

* **October 2002-March 2003,**five months: **« Jeune Ambassadeur de Lyon».**

Programme managed by the **Chamber of Commerce of Lyon** and the **AREI** (Association for the Relations and the International Studies. Sponsored by **TOTAL** (French Oil Company)and its Refinery at **Feyzin**-Lyon, with the project:

«Cooperation Programme in Safety, Environment and Communication between the Refineries of **Feyzin** and **La Rábida-Huelva** of **CEPSA (**Spanish Oil Company) »

**Special Award** by the***C****lub de la* ***C****omunicación* ***R****hône-****A****lpes*.

* **IFP-School Additional courses:**
  + **November 2003**: ‘’Communication skills for Life & Business’’.
  + **April 2004** : ‘’How to become a good manager’’.
* **November 2001: *Soluziona-UNION FENOSA***(Spanish Consultancy Firm), Madrid.

Intensive course in **Environmental Management** for **ISO 14 001.**

#### Languages

* ***Spanish***  : Native Language.
* ***French***  :Fluent (4 years in France)
* ***English*** : Fluent, 39 months living and working in English.
* ***Vietnamise*** : Basic.

#### Technologies and skills

* ***Engineering Software* :** Petro-SIM (Hysys), ProII, HTRI and STX, Forward.
  + **Petro-SIM(C) EMEA Power User**. Petro-SIM© V4 Beta Brainstorming member, tester and trainer. Leading the company wide task: ‘’Modelling Development in V4’’.
* ***Computer skills* :** Matlab, TurboPascal, DIGITAL Visual FORTRAN v 6.6. Microsoft environment and Office package.
* Spanish passport. European driving license.