

Personal Details

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 - *Date of Birth* : Madrid, 13 August 1977, Spain.
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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 Principles.
 - 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.

Education

- **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 Supérieure de Chimie Physique Electronique*, Lyon, France.
Erasmus Student in **Chemical Engineering** special field **Environment**. Overall Grade B.
- **1995-2002** : **UPM**, *Universidad Politécnica de Madrid*, Spain. **ETSII**, *Escuela Técnica Superior de Ingenieros Industriales*. Degree: **Industrial Engineer**, special field **Chemical Engineering**.
Overall 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 *Club de la Comunicación Rhône-Alpes*.
- **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.