

# YERAY ÁLVAREZ GALVÁN

Mobile: +33 751625397 (French) / +34 618857841 (Spanish)

Email: [yeray.alvarez.galvan@gmail.com](mailto:yeray.alvarez.galvan@gmail.com)

Address : 24 Chaussée de l'Essart, 38090, Villefontaine, France

Nationality: Spanish

Date of birth: 20-08-1988

Skype name: yeraag

## CHEMICAL ENGINEER

### Work experience

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#### **TRACERCO (Johnson Matthey), Process Diagnostic Department. Lyon (France)**

##### **Field/Project Engineer**

Process & Project Diagnostics Engineer.

Working in the Process Diagnostic Division. Giving services to refineries, chemical and petrochemical plants around France, Switzerland, Spain, Belgium, Italy, Greece and Sweden.

Specialized in process diagnostics, process troubleshooting and technical inspections.

**2014-current**  
**23 months**  
**(April-current)**

Special measurements: Flow rate measurements, Leakage tests (chemical and radioactive methods), Residence times. Column scans (trayed, packing, gas-liquid contactor, liquid-liquid contactors, etc.). Process studies. Reactor and regenerator inspections. Pipeline studies. Tomography (inspection of liquid distribution in a packing). Exchanger studies. Detection of liquid level in columns, storage tanks and vessels. Decanter studies. Specialized. Reactor and Regenerator. Start-Ups and Shutdowns.

High knowledge in Process Diagnostics and Process Troubleshooting.

Experience in refineries, petrochemical plants and chemical plants.

Process control.

Good understanding and interpretation of technical drawings.

Business development.

Risk assessment.

International projects and multicultural team work.

Ability to perform professional reports in 3 different languages (Spanish, English and French).

#### **DISA, Store Facility of Petroleum Products. Gran Canaria (Spain)**

##### **Laboratory Manager**

Quality control. Laboratory testing. Analysis of gasoline, diesel, fuel diesel and fuel oil according to ISO and ASTM standards.

Startup Lab: Performing test procedures, calibration and verification.

Conducting laboratory safety procedures.

Performing general laboratory procedure.

Risk assessment.

Set the calibration and verification of laboratory equipment.

Industrial maintenance training.

Provide technical support to the other laboratories that the company has in the Canary Islands.

Provide training course for laboratory technicians.

**2012-2013**  
**8 months**  
**(November-July)**

#### **CEPSA, Refinery. (Contract by ADECCO Science & Medical). Tenerife (Spain)**

##### **Laboratory Technician**

Process control by sample analysis. Quality control. Laboratory testing. Analysis of gasoline, diesel, petrol, diesel fuel, fuel oil, asphalt, crude oil and sewage.

Quality control processes. Sample testing to check critical parameters.

Analytical techniques: GLC, HPLC, UV, IR, FTIR, ICP, AA, titration, distillation.

Knowledge in ISO 9001, ISO 14001, OHSAS 18001, ISO 17025.

**2012**  
**7 months**  
**(April-October)**

#### **CEPSA, Refinery. Tenerife (Spain)**

##### **Internship. Final Project.**

Intern. Laboratory Analysis. Optimization of the critical parameters of gasoline blending. Quality studies (quality gifts). Optimization of the Catalytic Reforming Unit. Knowledge in Refinery Units.

Perform calculation such as Heat Mass Balances, Mass Balances, Flow Rate Calculation, Fluid Mechanics, Thermodynamics and P&ID's.

Collaboration with the Planning Department, Operations, Process and Laboratory.

**2011-2012**  
**9 months**  
**(July-April)**

## Education

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- IMF Business School – Master in Project Management**  
**Date of completion of studies: Studying (expected, 2016).**  
**2015-2016 (expected)** Modules: Strategic Management, Project Finance Management, Project Quality Management, Project Planning, Implementation and Control, Human Resources Management, Project Communications Management and Sales, Integration, Legal Aspects.
- University College of Dublin (UCD) – Professional Certificate in Radiation Safety**  
**Date of completion of studies: May 2015.**  
**2015-2015** Modules: Fundamental Concepts, Radiation Exposure and Dose, Radiation Detection and Measurements, Biological Effects of Ionizing Radiation, Radiation Protection Criteria, International Framework and Regulatory Control, Radiation Monitoring, Protection against Occupational Exposure, Intervention Planning Emergencies (Non-Ionizing Radiation), Radiation Protection in Industry.
- Catholic University of Avila (UCAV) – Postgraduate: Expert in Operations Management.**  
**Date of completion of studies: January 2014.**  
**2012-2014** Modules: Manufacturing, Optimization and Industrial Control, Industrial Logistics, Quality Management and Environmental Management. Prevention of occupational hazards.
- University of La Laguna (ULL) – MSc. Chemical Engineering (5 years degree).**  
**Date of completion of studies: September 2012.**  
**2006-2012** Modules: Process Engineering, Process Simulation, Process Design, Project Management, Economy, Instrumentation and Control of Chemical Processes, Chemical Reactors, Food Engineering, Heat Transfer, Transport Phenomena, Quality and Environmental Management.

## Skills

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- Computing**  
**Microsoft Office:** Excellent skills in Excel, Access, Word, PowerPoint and Outlook.  
**C.A.D.:** Autocad 2010.  
**Predictive analysis:** SPSS.  
**Math software:** Matlab, Scilab.  
**Simulation:** Pro II, UniSim, Hysys.  
**Programs related to the oil industry:** LIMS (Analyst level and Manager level), ACS, SAP.
- Languages**  
**Spanish:** Native.  
**English:** Fluent.  
**French:** Fluent.  
**Italian:** Basic (Official School of Languages).

## Other data of interest

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### Availability:

- Driving license B. More than 5 years.
- Flexible schedule.
- Willing to relocate.

**Personality:**

Interested in continuous learning.  
Very curious.  
Team player with ability to be autonomous  
High knowledge in how to deal with clients  
Business development.  
Very proactive and competitive person.  
Highly motivated.  
Entrepreneurship spirit  
Committed.  
Innovative.  
Creative.  
Rigorous and responsible.  
Outgoing.  
Empathic.  
Ambitious.  
Passionate.

**Courses:**

Course: Occupational Health and Safety (CEPSA).  
Course: Equipment of laboratory and analysis: ICP-OES, AA y FTIR (AGILENT TECHNOLOGIES - CEPSA).  
Course: Distillation, sulfur analysis, titration (HERZOG – PAC – DISA - CEPSA).  
Course: Maintenance and analysis (CEPSA).  
Course: Safety in industrial environment (CEPSA)  
Course: Corrosion in pipelines and units.  
Course: Firefighting. Advanced level (FALK, training center in Gran Canaria).  
Course: Occupational Health and Safety in Laboratories and Storage Facilities (DISA).  
Course: Safety in Laboratories (DISA).  
Course: Laboratory Equipment. Maintenance and analysis. (DISA).  
Course: Analysis of industrial risks in chemical and petroleum industries. HAZOP Method. (REPSOL-UCLM).  
Course: Engineering Design Process. (REPSOL-UCLM).  
- Vessel, pumps, compressors, heat exchangers, pipelines, valves, pressure relief systems, advance process control.  
Course: Sales Management (TRACERCO and Mentor Group, Brussels).  
Course: VCA Safety Certification (TRACERCO, Antwerp).  
Course: Radiation Protection (Tracerco).  
Course: Safety Breathing Apparatus.  
Course: ATEX (INERIS)  
Course: Petroleum Industry. Heat exchangers, furnaces, reboilers, condensers and distillation. Operating problems, control systems, start-ups and Shut-downs, Troubleshooting (API, American Petroleum Institute).  
Course: Safety Courses for of industrial facility (TRACERCO and clients)  
Course: Distillation Internals: Trays, packings, distributors, collectors (TRACERCO – Fractionation Research Inc., Brussels).  
Course: 11th Fluid Catalytic Cracking Forum, (AXENS, Barcelona).  
Course: ATEX and Hazardous Areas (Tracerco).  
Course: Webinar by Henry Kister: "Troubleshooting on reboiler systems".

**References**

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**CEPSA Refinery Tenerife, José Juan Macías Hernández**  
**Process Engineering Manager (30 years of experience).**  
**Phone:** (0034) 649 741 084

**DISA Storage Facility, Enrique Padrón**  
**Head of Services (16 years, currently).**  
**Phone:** (0034) 626 496 573