



PIERRE DIENOT

Process Engineer with focus on Energy and Environment
Seeking a Carbon footprinting position in the Energy Industry

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EDUCATION

- **Master's degree in Process Engineering, UTC (Compiègne, France) | 2016 - 2020**
Design of large-scale processes. Management of innovative projects.
Focus on Energy and Environment.
- **Environmental Engineering, EAFIT (Medellín, Colombia) | 2018**
Exchange semester centered on industrial ecology, waste recovery and green chemistry.
- **Scientific Preparation Program (Tours, France) | 2013 - 2016**
Three-year preparation program for competitive exams and admission to Engineering schools.
- **Baccalauréat Scientifique, French High School in Costa Rica | 2012**
Final French secondary diploma, concentrating in science and math.

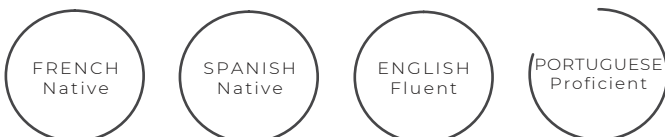
WORK EXPERIENCE

- **Innovation Engineer: Optimised and monitored soil decontamination.**
Haemers Technologies (Brussels, Belgium) | September-February 2019-20 (6 months)
Designed a heat recovery system with a gas-to-gas exchanger :
 - Sized the system and carried a techno-economic study.Proposed a method for monitoring the decontamination of hydrocarbons in the soil :
 - Validated an innovative measuring device through laboratory experiments.
 - Drafted a protocol for monitoring large-scale depollution.
 - Implemented the protocol at the client's site.Analysed field data and developed interactive graphical representations for clients.
- **R&D Engineer: Designed a large scale energy storage system for nuclear reactors.**
CEA (Cadarsache, France) | February - August 2018 (6 months)
Designed and modelled a heat storage system to manage intermittency of Renewable Energies :
 - Pre-designed an innovative Energy Storage System.
 - Modelled the Storage System with a thermo-hydraulic calculation software.
 - Tested the System by simulation and validation of the imposed specifications.
 - Analysed the cost in terms of resources of such a system.The results of this study led to the publishing of a paper in The International Congress on Advances in Nuclear Power Plants (ICAPP) in 2019.

PROJECTS

- **Life Cycle Analysis - Jeans made in Colombia**
EAFIT Project (Medellín, Colombia) | August 2019 - November 2019
 - Defined the subject of study (jeans made in Colombia, sold in France) and the hypotheses to be taken.
 - Modelled the life cycle on Umberto from "cradle to grave" (cradle to grave, scope 1 2 3).
 - Estimated the environmental impact, particularly in terms of carbon footprint and water use.
 - Proposed solutions to reduce the impact (use of laser washing, adopting good jeans washing practices, use of organic cotton).
 - Presented of results at EAFIT University in Medellín, Colombia.Group project in a multicultural team of three students.

LANGUAGES



English Certificate : TOEIC - score: 990/990 (2019)

COMMUNITY SERVICE

Erasmus Social Network (UTC, Compiègne)
Public Relations Officer: - Managed a multicultural team

- Planned events
- Conducted meetings

SKILLS

Industrial Sciences

Design - Hydraulic and electrical modeling
Life Cycle Analysis with OpenLCA/Umberto

Physics - Chemistry

Heat transfers - Mass/energy balance
Fluid Mechanics - Thermodynamics

Computer skills

Proficiency in Python for data analysis
Proficiency in Excel VBA - Matlab and Simulink
Proficiency in Microsoft Office and LATEX