Sandrine MARTY

General engineer specialized in environment and energy

DOB: 11 of February 1990

French

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Drivers' Licence: Full, Clean.

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Education	
2015-2016	Advanced Master in Engineering and strategy to innovate in Environmental Management, ISIGE-Mines ParisTech, France.
2012-2014	Research Master (double diploma), Ecole Polytechnique, Montreal, Canada. M.Sc.A in chemical engineering. Thesis's subject: The production of calcium oxide and sulphur dioxide from phosphogypsum decomposition. GPA: 3.47/4
2010-2013	Engineering studies, Ecole des Mines de Nantes, France. Master, environmental engineering. Core subjects include: Fluid mechanics, Energy and Environmental Strategies and Processes, Statistics, School projects (OSE, MSE, PRIME, Associative projects). GPA: 3.38/4.0
2008-2010	2-year intensive undergraduate program preparing for national competitive exams for entry to engineering schools, France. Studies included: Mathematics, Physics, Chemistry, Engineering sciences, English.
2005-2008	Baccalauréat, Scientifique . French equivalent to A-levels, with honors. Studies included: Mathematics, Physics, Chemistry, Biology, Foreign languages.

Work Experience

July 2011

(1 month)

Work Experience	
Sept.2015-Oct. 2016	ENGIE Futures Energies - Apprenticeship Training
	Objective: Wind turbine projects development and monitoring.
June 2014-June 2015	HUTCHINSON – Engineer
	Objective: Improvement of super capacitors production industrial process
	- Assistance to the project manager on the different stages of the process (design, purchase materials,)
	- Management of 3 technicians of the E-Green laboratory and scheduling tasks (VP)
Jan. 2013-Feb. 2014	OCP Group – Final engineering internship
(1 year)	Research project in chemical department of the Ecole Polytechnique of Montreal for the
	company OCP (based in Morocco). Objective: Process design to recover a waste. (Confidential results)
May 2012-Aug. 2012	DNV KEMA (Arnhem, The Netherlands) – Engineering internship
(3 months)	Reporting design for Cap'Wa project: theoretical analysis of the gas composition, pressure
,	drop calculation, sizing of pumps and exchangers, choice of materials and costing.
Jan. 2012	EIDER (Angers, France) – Junior engineering consulting
(2 weeks)	In a team of 4 students, responsible for:
	- Establishing a strategy for export development,
	- Improving the means of communication.

MEGIAS Plastiques (Villeneuve-Tolosane, France) - Trainee

- Analysing the supply chain of the thermoforming department to understand its function

This company works in plastic materials. Responsible for:

and its constraints,

- Working in an operator's team of the production line,

- Interviewing 2 members of the managerial staff to get acquainted with their career.

June 2011 (2 weeks)

PROSERVIA (Carquefou, France) - Junior engineering consulting

Responsible for:
- Conducting an audit in a team on the Corporate Social Responsibility policy of the

- Writing a report on possible improvements in their policy.

School Projects

Nov. 2013-Dec. 2013 Ecotoxicological study of a case of contamination with TerraSys. In a team of 2, responsible

for:

Company,

- Land characterization (fictional) contaminated with various contaminants,

- Specific Study about the PCP contamination,

- Risk assessment with TerraSys software.

Nov. 2012-Dec. 2012 Life Cycle Assessment of coated paper. In a team of 4, responsible for:

- Identify the strengths and weak points of the LCA of coated paper,

- Propose improvement of this LCA.

Results: Written report and oral presentation as a poster.

Sept. 2012-Dec. 2012 Analysis of an impact study report. In a team of 6, responsible for:

- Preparation of a written report and oral presentation on the role of stakeholders in this

project part.

Nov. 2012-Dec. 2012 Conception of a hybrid system with geothermal heat pumps to heat/cool a building.

- Sizing of the ground loop for a classic system,

- Conception of a hybrid geothermal system with a vertical closed loop,

- Review of the Impact Analysis report Turcot project (Quebec, Canada),

- Life Cycle Cost minimisation.

Sept. 2011-April 2012 OSE: Preliminary study for the installation of a solar system in a village in India. In a team

of 5, responsible for:

- Sizing a solar panel system to provide electricity in a village,

- Analysing the financial costs and the return on investment,

- Writing a report for a local organization for solidarity in India.

Sept. 2010-June 2012 Association projects manager. Eki'Libre, students association for the sustainable

development. Responsible for:

- Delivering fruits and vegetables weekly from local organic farms over the campus for

students,

- Planning documentary projections in the school about sustainability issues and open to

students,

- Conducting public debates.

Oct. 2010-May 2011 MSE: Simulate thermal transfers.

Sept. 2010-June 2011 PRIME: Designed a model to measure the thermal comfort of a room.

Languages and Skills

French Mother tong.

English Fluent. IELTS (International English Language Testing System): 7/9

Spanish Intermediate level (Writing and Speaking) (B1)

Chinese Notions (A1)

IT Pack Office, FactSage, ASPEN PLUS, TerraSys, COMSOL, EES, Matlab, TRNSYS, Fluent, Eclipse, EC-Lab.

Sustainability, Life Cycle Assessment, Impact studies, Project management, Transport Phenomena,

Fluid dynamic, Thermodynamic, Process Engineering, Water treatment, Renewable energies.

Hobbies

Others

Sports Dance (classic, modern-jazz, hip-hop): 16 years (performing on stage once a year), Diving degree level

1 (French equivalent to PADI Open water), Yoga.

Others Travels, Reading, Cinema.

Associative Association of sustainability from the Ecole des Mines de Nantes, Eki'Libre. Volunteer with UNICEF.

Energie Partagée.