Jonathan Coignard

Computer sciences &
Electrical engineering

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Education

2012 – 2015	**Engineering degree - Master equivalent**, *Compiègne University of Technology*, France. Urban systems engineering, specializing in electricity supply - Research minor
Spring 2012	**Semester of studies abroad**, *Riga Technical University*, Latvia. Electrical engineering

Research Experience

March 2014 - present	**Optimisation of the electrical power supply by a wind-turbine**. Numerical modelling of a wind-turbine using SIMULINK/MATLAB, including practical realization through its command system
Spring semester 2013	**Harbour and Energy**, *commissioned by the CEREMA (Centre For Studies and Expertise on Risks, Environment, Mobility, and Urban and Country planning)*. Analysis of the possible energy production around Dunkerque harbour, in partnership with Areva

Work Experience

September 2015 to current	**Research associate**, *Lawrence Berkeley National Laboratory*. Researching electrical vehicles' potential to provide services to the grid
February 2015 to August 2015	**Research engineer assistant internship**, *Lawrence Berkeley National Laboratory*. Development of MyGreenCar platform and V2G-Sim software to quantify EV's impact on the grid
September 2013 to march 2014	**Research engineer assistant internship**, *CEREMA*, Brest. Near shore quantification of incident wave energy Economical study of the *kWh* cost price for wave energy systems

→ Journal paper "EMACOP project : Digital modelling of the waves toward Esquibien's dam using SWASH" in the online journal *Paralia* (available in French upon request). Presented at The National days of Coastal Engineering and Civil Engineering (2014 congress)

→ Conference paper "EMACOP project: characterising the wave energy resources of hot spots in Brittany for on-shore WEC" for The European Wave and Tidal Energy Conference (2015 EWTEC).

February 2012	**Engineer assistant internship**, *Fluditec*, Ploërmel. Internship in a consulting office for thermal building design
Summers 2011, 2012, 2013 and 2014	**Volunteering**, *Archelon, The Sea Turtle Protection Society Of Greece*. Conservation of the endangered species *Caretta caretta* (loggerhead sea turtle) at the most influential nesting beaches of the Mediterranean

Skills and languages

CAD	AutoCAD, Sketchup, LTspice, PowerFactory
Programming	Python, MATLAB and Simulink (advanced use)
Presentation	Photoshop, Office suite and LaTeX
Knowledge	PostgresSQL, SQL request, UML model, Git, Django and fuzzy logic
Languages	French: mother tongue - English: fluent - Spanish: intermediary

Miscellaneous

Driving license since 2010

Glider pilot license since 2008

President of the digital and paper drawing association *"DaDa"*