



Pierre Massé

Engineer Arts & Métiers / Supélec in power electronics looking for technical challenges in energy conversion



18 Avenue Emma, La Celle Saint Cloud, France



+33 6 69 29 81 65



<https://www.linkedin.com/in/pierre-masse-fr/>



pierre.masse.lf@gmail.com



About me

Engineer looking for career opportunities in power electronics in Paris region. I'm sociable, autonomous, rigorous, dynamic and inventive.



Skills

Power electronics



Matlab



Tests and production



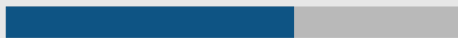
Python



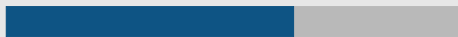
Automatics - Control



Mechanics



Heat transfer



Languages

French



English



Italian



Experience

December 2019 - Now
La Défense

Technical support / Submarine cable system engineer - RTE

Technical support on the whole of the material part for several installed and floating wind projects.

Analysis of technical offers and follow-up of production and installation of cable systems for major RTE projects.

Follow-up of conformity tests for very high voltage cables (66 and 225 kV) according to IEC standards and CIGRE recommendations.

Creation of several maintenance (data visualisation) and analysis (calculation) tools coded in Python.

Implementation of a technical audit of welding and brazing for one of our suppliers following non-conformities.

Technical exchanges and work accomplished with cable manufacturers and international groups

April-August 2019
Rueil-Malmaison

Development of an inverter control law for a micro-grid - Sagemcom

Development of a reversible inverter model and power regulation of the inverter in *standalone*. It was tested on a dedicated bench

Development of a control law in *droop control* for the synchronisation of several inverters on a micro-grid.

September-March 2019
Gif-sur-Yvette

Technical and economic study of a high power short distance superconducting link - EDF & Supélec

Study of the cables existing between nuclear generators and high voltage transformers.

Dimensioning of a superconducting cable and related calculations.

Analysis of the losses, operating costs and investments of the two systems.

March-June 2018
Gif-sur-Yvette

Design of a battery charger - Supélec

Study of the converter structure to be implemented.

Dimensioning of converters and filtering elements.

Establishment of the control law and the correction.

Design and simulation with *Simulink* - *Power SimScape*.

Education and degrees

2017-2019
Gif-sur-Yvette

Engineer degree CentraleSupélec (Supélec curriculum)

With majors in « Energy Conversion » (*Automatics, power electronics and electrical machines*).

2015-2019
Lille

Engineer degree Arts & Métiers ParisTech (ENSAM)

With majors in *heavy industrial processes, mechanics and industrial organisation*.

2013-2015
Versailles

"Classe Préparatoire aux Grandes Écoles" - Jules Ferry

Two-year highly selective classes to prepare for the competitive exams to the "Grandes Écoles" (specific to french academic system).

Extra-curricular activities

2020
Online

Video games

Guild officer at *APC* : event management, recruitment, team management and conflict management

2015-2017
Lille

Student council at Arts & Métiers ParisTech

Residence manager at Arts et Métiers.

Delegate for pedagogy (essential intermediary between students and administration).

Since I'm born

Reading

Philosophy, lifestyle.