



# Pierre Massé

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



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## About me

Engineer looking for career opportu-  
nities in power electronics in Paris re-  
gion. I'm sociable, autonomous, rigor-  
ous, dynamic and inventive.



## Skills

Power electronics



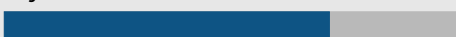
Matlab



Tests and production



Python



Automatics - Control



Mechanics



Heat transfer



## Languages

French



English



Italian



## Experience

December 2019 -

September 2022

La Défense

### Technical support / Submarine cable system engineer - RTE

Technical support on the whole of the material part for several in-  
stalled and floating wind projects.

Analysis of technical offers and follow-up of production and instal-  
lation 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 manufac-  
turers 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 synchronisa-  
tion of several inverters on a micro-grid.

September-March

2019

Gif-sur-Yvette

### Technical and economic study of a high power short dis- tance 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 electron-  
ics 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 ex-  
ams to the "Grandes Écoles" (specific to french academic system).

## Extra-curricular activities

2020

Online

### Video games

Guild officer at *APC* : event management, recruitment, team man-  
agement 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.