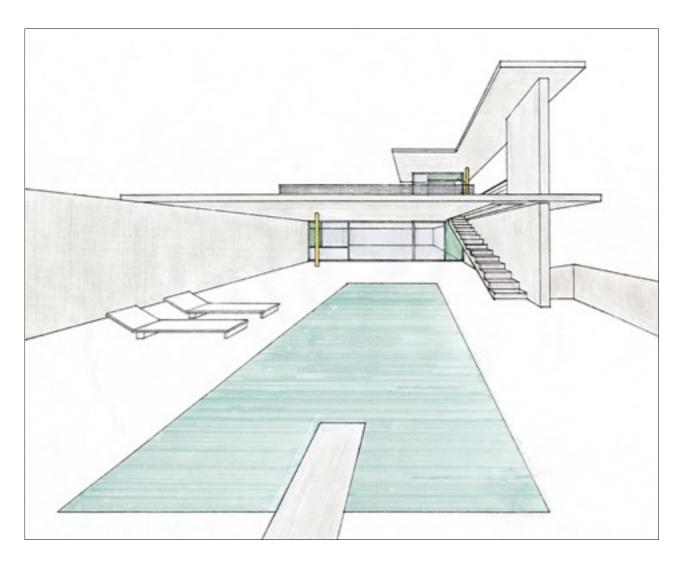# Démotic project

Préparé pour : LTPSN, Bac 2014

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WHAT IS THE USE OF THE PROJECT

Pierre-Yves Martin

This project is **used** to **simplify** everyday **life** with **energy control** of electrical life.

First at all, the project is **developed for all persons**, **everyone** can **use** the **project** for **personal** use at **home**.

So, we have **make** this **project** for the **home control**, with **devices logged** in **sector**. So, with all processing programmed, you can switch on/off differently devices by relays.
The **general use** is for classical **two-way appliances** like all electrical **bulbs**, some **heaters**, we have also think to integrate a system to turn on **some computers** with the « wake on lan/wlan » technology.
This **project** is **perfect** for all persons **interested** in **home automation**.
Moreover, this **project integrates** a **durable perspective**.

MATERIAL

Pierre-Yves Martin

To host the **Web page** who will **interact** with the Arduino in i2c, we will use a **Raspberry Pi** like a Web Server with an Operating System based on Linux.

We choose this computer because it's **use less energy**, it's a good thing because this printed circuit board computer costs **10 euros/year** in electricity.
That's why we can leave it on all the year.
It will be configured by Lucas.

The Relay Card will be **wired to an Arduino.**
It can **controls** all **electrical devices** that you want.
It is the **most used micro-programable card**, the **language** associated (arduino) is **easy to learn**.
There are **many** lot of **arduino cards** with different GPIO ports and different uses…
We have **choose** the **arduino uno card**, because it a good **price-quality rapport**, and relatively **powerful to run with** all the **device** of the project.
We'll use it in **parked mode**, **connected** at the **raspberry pi**.