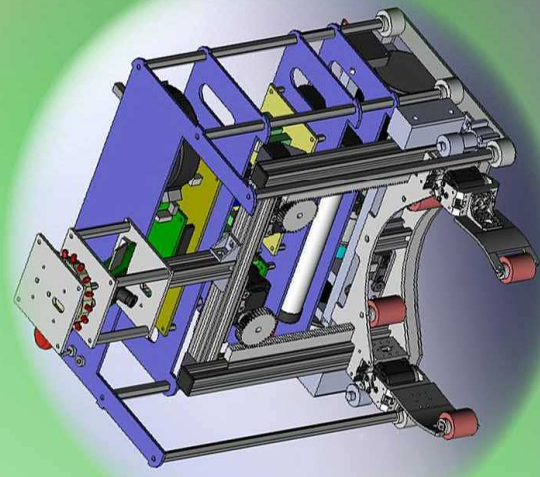


## Moving

The robot moves with two CC motors FAULHABER. (managed by an FPGA), by free wheeling encoders (managed by the rest of the robot) by a microcontroller PIC32. Then power is distributed to the rest of the robot. They are bonded in position (x, y, alpha) assisted by a microcontroller PIC32. The power is provided by two 12V NiMH accumulators.

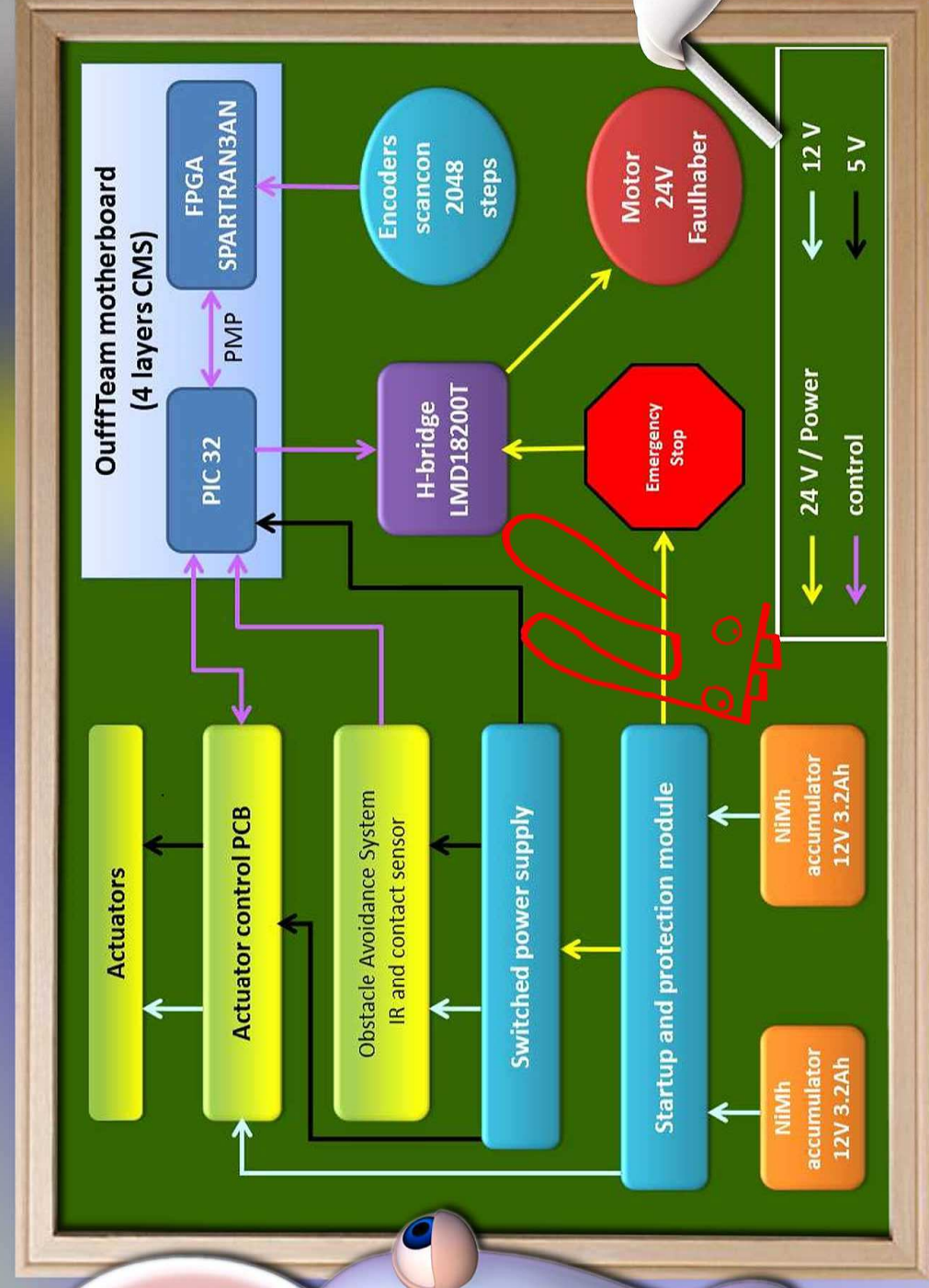
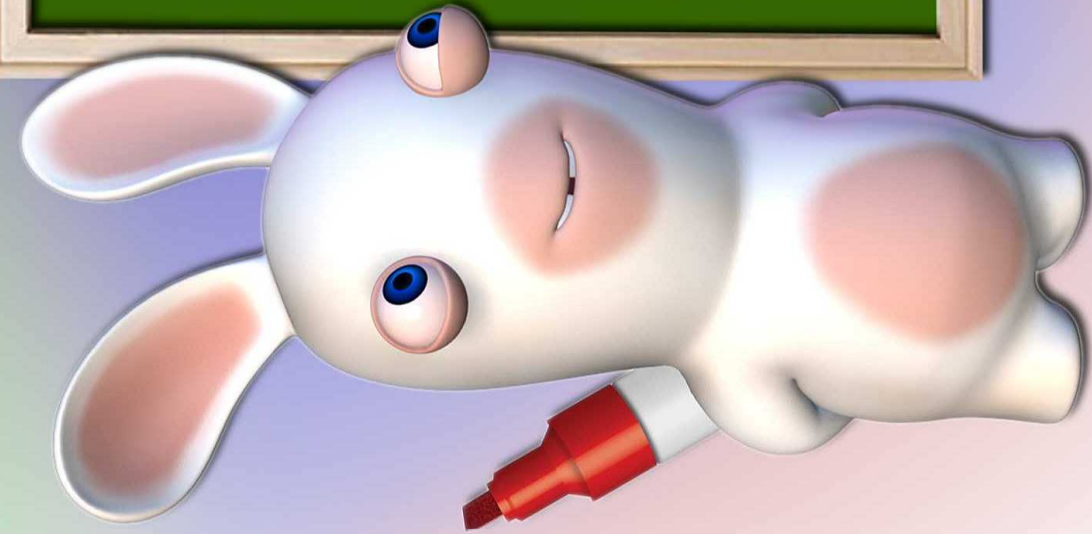
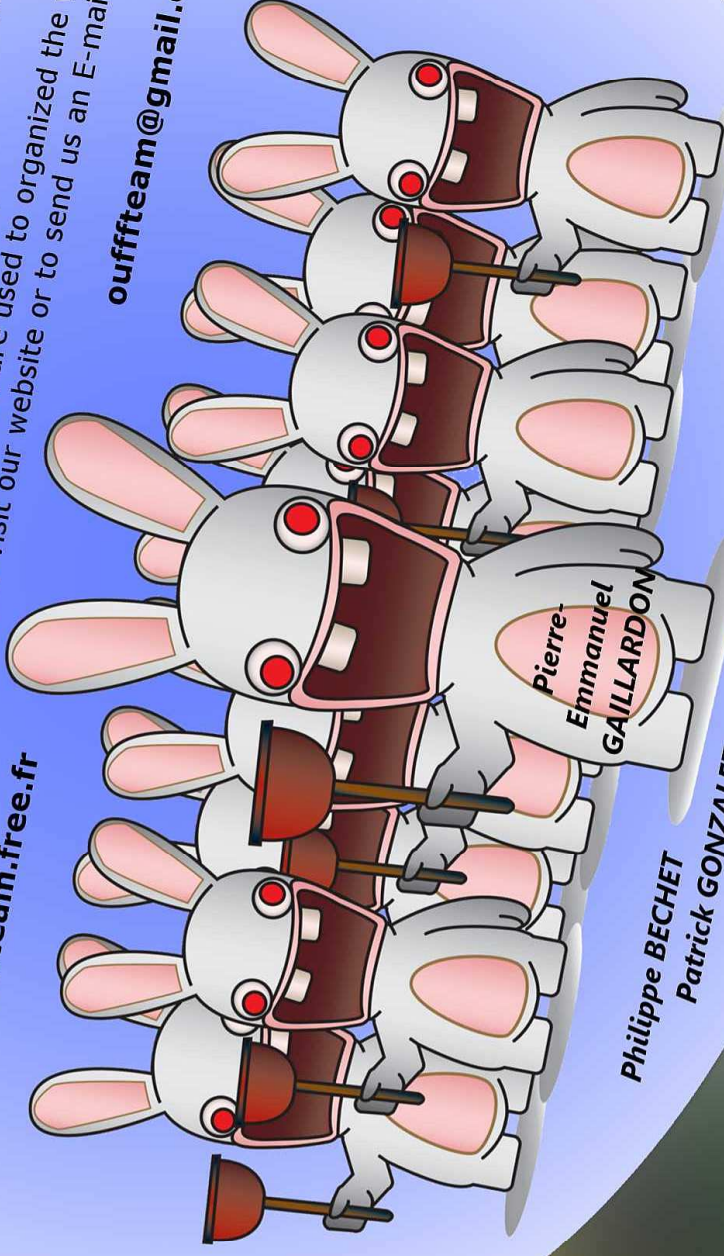


## The association

The Ouffteam was born in 2007. After four years of development and adjustment, this is the third year the team takes part in the competition. Scattered throughout France, the work done since the creation of the club. For further informations, feel free to visit our website or to send us an E-mail.

<http://www.ouffteam.free.fr>

[ouffteam@gmail.com](mailto:ouffteam@gmail.com)



**A.I.**  
The intelligence is located on a PCB developed and programmed by the team. It is based on a microcontroller PIC32. A realtime OS, iC-OSRT, is used to calculate the displacement of the robot and make the interface with the hardware.

## The strategy

Our strategy is divided into two parts:  
The first objective is to use our articulated arms (with suckers) to store the coins and bullions into the captain's room.  
If we have enough time, we will try to throw the bottles into the sea and discover the treasure map at the end of the game.  
And as we are friendly pirates, we will not attack the competitor's ship.



how to move:  
Turn (right),  
Turn (left),  
Go (straight forward),  
Turn( back),  
Shout out (bwaaaaahhhhhhhhhhh);

## The robot figures

- 2 x 20W : this is the power of our motors,
- 5 years : the age of the association,
- 6 : number of members,
- 1000 : number of kilometers driven by the member during "days of robotics",
- 30 000 : this is the amount of lines needed to move the robot,
- and millions of neurones during long days of robotics.

