

GalaXess Goal MBapBot

Teachers:



M. METREF

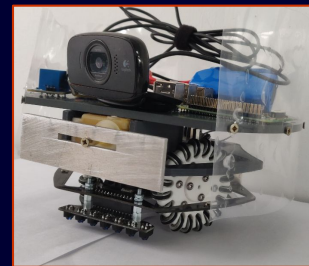
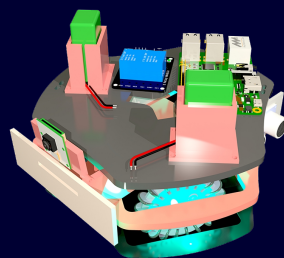


M. VERDIER

Hardware Features

- Bots controlled with Raspberry pi
- USB camera for image capturing
- Kicker powered with 9 volts batteries and relay
- Proximity sensor, gyroscope, leds and beepers, line detector for displacement and positioning.

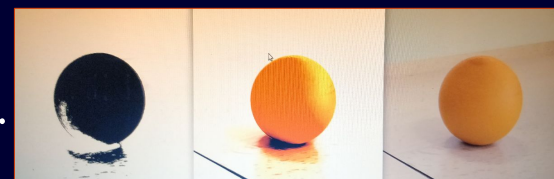
Our Robots



During the designing process

Software

- Code written in python, libraries compiled in C
- Image processing for ball detection made from OpenCV library.
- Displacements and embedded systems are controlled in python, with a library that uses a customised API, MetaBotAPI from Rhoban Team.
- Raspberry controls the kicker with GPIO. The robots have their own motherboard and communicates with the Raspi by serial port



Real time Processing using masks and OpenCV

Our Team :

ESTEBAN

Our great builder and 3D designer. Creator of the structure.



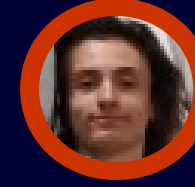
LAETITIA

Robot - communication And marketing at it's best



ARNAUD

Image computing and camera detection
The eyes of our robots.



LEO

Main Programmer, Work on in-game displacement and robot's strategy.



THEO

Captain
Work on interfacing and electric component

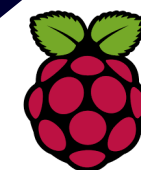
Enjoy !

General

Bonjour ! We are a french Soccer team from Pau (South West of France). Our team is composed of five High School student from our robotics team GalaXess, and our European section (SESAA).

For some of us, it's not the first time we participate in Robocup, but it's our first time in this league. Working on this project was a great occasion to learn a lot of new things, and it's still a source of fun, knowledge and experience.

Feel free to ask questions we are available to help you sharing what we know !



RHOBAN
THE ROBOT WORKSHOP

