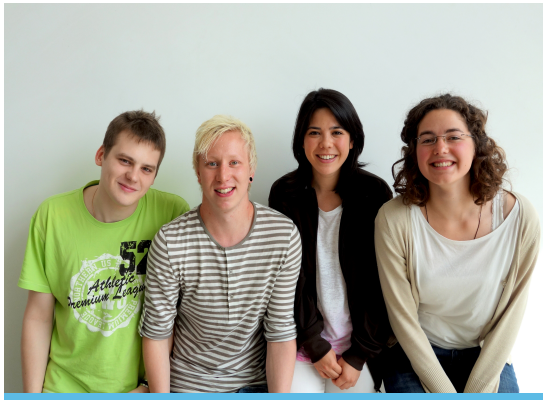
“Intelligent toys, Intelligent kids”

Swimming Robot

“Children can play at the same time they learn”



About us:

European label

The professionals of the “Swimming Robot” team are from different countries and disciplines. Thanks to this, we are able to reach the public and know which are their needs.

A Mechanical Engineer, Electrical Engineer, Maritime Engineer and an Architect have supported this project.

This diversity is a great advantage when it comes to facing problems. Our different points of view help to find efficient solutions.

Contact us:

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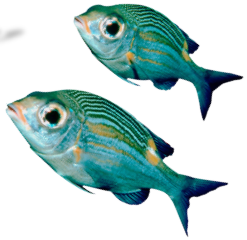
http://www.eps2014-wiki1.dee.isep.ipp.pt/doku.php

“ It is not only a toy, it is an experience”



Why us?

The “Swimming Robot” is an educational construction kit for children of an age range between eight and twelve years. It has several features:

- Movement like a fish
- Steering (left/right and up/down) can be controlled remotely
- Easy to program
- Teaches about physics of motion in the water by customizing components

The “Swimming Robot” is not only a toy, but also an experience of experimenting with physics and robotics. Children can learn at the same time that they play.

There are packs of pieces for different levels of difficulty available. Children will grow at the same time as their toy.

“Swimming Robot”

Architecture

The toy is simple enough for the children to assemble oneself but at the same time realizes high degree of freedom while operated. It has a circular body, two controllable fins at the side of the body and a bottom fin. The segmented tail fin actuates the fish and its motion can be easily adjusted by bending the embedded shaft. Children can see effects directly.
The movement of the fish is simple but efficient.

Main components

- Circular hull
- Battery
- Control Unit
- Remote control
- Ballast
- 2 Servomotors actuating the side fins
- 1 Servomotor actuating steering fin at bottom
- 1 DC motor with attached bended shaft actuating the segmented back fin