Recherche de solutions sur Internet

Une recherche a été effectuée sur Internet pour observer des solutions mises en œuvre par des particuliers, des écoles, des clubs ou des vendeurs de robots.

SITE 1 : IRBOT

IRBOT est un petit **robot mobile** expérimental téléguidé par infrarouge. Il est équipé d'un microcontrôleur.
Il est de conception simple mais dispose néanmoins de multiples fonctionnalités : détection d'obstacles, mémorisation du parcours, joue de la musique, se recharge tout seul ...

Pour la roue libre c'est une perle en bois que vous emprunterez à votre petite sœur.
Repercez-la à un diamètre de 5 mm. Prenez une tige filetée de 4 mm de diamètre et courbez-la à un angle droit dans un étau. Coupez-la à la bonne dimension (30 * 45 mm).
Emprisonnez la perle entre deux écrous, elle doit tourner librement. Arrangez vous pour bloquer l'écrou de l'extrémité.

Pour en savoir plus :
http://www.robot-mobile-irbot.com/2-chassis-roues-robot.htm

SITE 2 : Micromouse Body Set

This precision-engineered maze solving robot body set includes all the necessary electro-mechanical parts needed for a competition micromouse robot.

Specifications

- Body: Upper/Lower Aluminum Frames
- Wheel size: 51.3mm with rubber x 2
- Motors: Stepping motor (H546) x 2
- Stabilizers: Ball casters x 2

£84.00

Pour en savoir plus :
http://www.active-robots.com/products/platforms/micromouse-bodyset.shtml

SITE 3 : Rogue Blue ERS

Encourage analytical thinking while introducing and advancing concepts in digital and analog electronics, communications and computer interfacing with these fun and exciting mobile robotics tools.
Involve students in individual and team design challenges with classroom exercises and competitions.

£205.00

Pour en savoir plus :
http://www.active-robots.com/products/robots/rogue-blue.shtml

SITE 4 : Soccer Robot Body Set

This precision-engineered soccer robot body set includes all the necessary mechanical parts needed for a competition soccer robot.
The construction of the soccer robot body set is compliant with the Federation of International Robot-Soccer Association (FIRA) rules.
Included are two precision (Swiss made) geared DC motors with integral 512-pulse/rev encoders for precise motion control.

£242.93

Pour en savoir plus :
http://www.active-robots.com/products/platforms/soccer-baseset.shtml

SITE 5 : KITBOT

The chassis was designed to provide FRC teams with a simple reliable drivetrain design, which emphasizes versatility and configurability. It has many adjustment options, and can be constructed in numerous size and orientation configurations. All teams should keep in mind; there is NO "right" way to construct a robot drivetrain. This chassis is designed to facilitate creation of MANY different drive designs, depending on a team's chosen requirements.

$189.95 (châssis uniquement)

Pour en savoir plus :
http://www.ifirobotics.com/kitbot.shtml

SITE 6 : Mr. Soccer

FireBox's hi-tech football game, Mr. Soccer, is the world's first multiplayer robot football game. It costs £34.95 and features radio-controlled robots. You can dribble the driods forward, backward, left, right, and the all important shoot function. The objective? Score more goals than your opponent by the end of the allocated time. Each bundle comes with 2 robots, a pitch, balls and goals. Separate robots will cost an additional £14.95, and you'll need up to 7 per team for a decent game.

Pour en savoir plus :
http://www.ubergizmo.com/15/archives/2005/10/robot_soccer_de.html

SITE 7 : Compétition BBC

"…As for the American machines, they specialised in demolishing the living hell out of each other in one-on-one robot combat…."

"Some robots are designed to intimidate"

Pour en savoir plus :
http://news.bbc.co.uk/1/hi/technology/3564553.stm

SITE 8 : Compétition BBC

The competitions seemed to break down along cultural lines. The Japanese robots reigned supreme when it came to sumo-wrestling, while the European teams showed off their skills on the football pitch.

Pour en savoir plus :
http://news.bbc.co.uk/1/hi/technology/3564553.stm

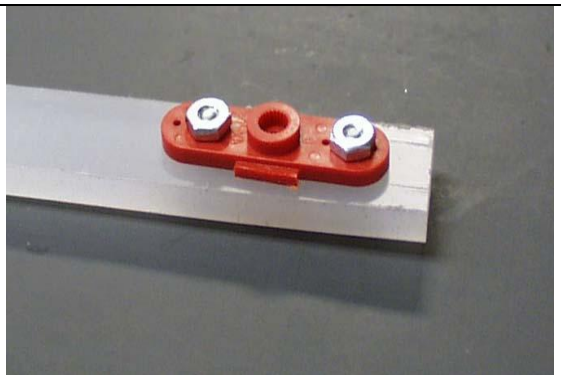
SITE 9 : electronicaestudio

El RAUP II incluye un programador de microcontroladores PIC®, tarjeta de sensores, Arma este estupendo ROBOT, que puedes controlar con un "Control Sony" como el de tu televisión

Pour en savoir plus :
http://www.electronicaestudio.com/robotica.htm

SITE 10 : mechatronic system

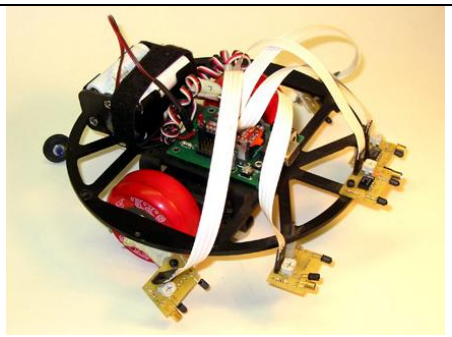
In order to attach our "paddles" to the servos we used the standard armatures that came with our servos. We simply drilled holes into the armatures and mated them with our polyurethane paddles. The armature (with paddle) was then simply friction fitted onto the shaft of the servos.



Pour en savoir plus :
http://lims.mech.northwestern.edu/~design/mechatronics/2002/Team12/mechanical.html

SITE 11 : Robodyssey Mouse

Robodyssey Mouse with RAMB (link) with a Parallax Basic Stamp 2e and five self-leveling non-modulated IER sensors is a desk-top navigator with piezo element for sound feed-back



Pour en savoir plus :
http://www.robodyssey.com/gallery/CoryMouse/Nindex.htm

SITE 12 : kronosrobotics

Tamiya makes a nice set of rubber wheels that can be connected to your servos. You will need a 3 or 6 sided servo arm and some servo mounting spacers and screws. (These are included with the Kronos Robotics Standard and Modified servos)

Pour en savoir plus :
http://www.kronosrobotics.com/an118/GAN118.shtml

SITE 13 : µPobot

Articles écrits par Patrick Pollet - le concepteur du µPobot et fondateur du club - pour le magazine Electronique Pratique n°280 de Décembre 2003 (Micros et Robots)

Pour en savoir plus :
http://www.pobot.org/Construction-des-elements.html

SITE 14: Soccer-playing robot runs real-time embedded Linux

Our robots were constructed at SJTU Research Institute of Robotics as part of a project to build real-time, inexpensive, autonomous robots for the study of multi-robot systems operating under dynamic and uncertain environments. The main idea for designing the whole multi-robot system was to view each robot as an autonomous physical entity capable of intelligently interacting with changing, variable surroundings. The robot must also be physically strong, computationally fast, and behaviorally accurate.

Pour en savoir plus :
http://linuxdevices.com/articles/AT5691991282.html

SITE 15:Owi Soccer Jr. Robot Kit

".....A THIRD motor has been added to this (already) awesome robot, which is used to catch and shoot an included ball....."

".....the mechanism of three motor drive systems, the mechanism of the legged drive system, and the wired remote control systems. You can't go wrong with the Soccer Robot; there is truly something for everyone....."

Pour en savoir plus :
http://www.hobbytron.com/soccerjr.html

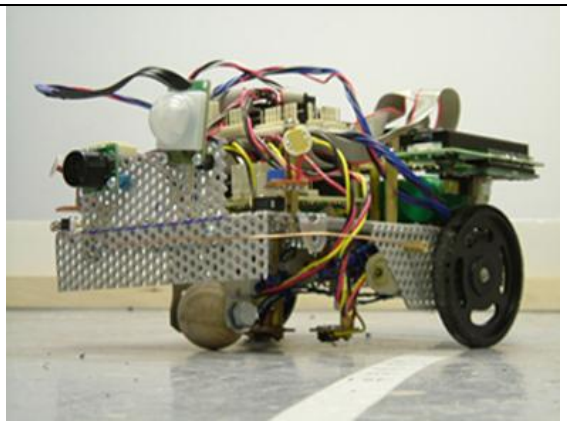
SITE 16 : Microb

SpinoS est une plate-forme de robot mobile modulaire et performante. L'équipe SAE Robotique de l'École Polytechnique a conçu et fabriqué le robot SpinoS en utilisant la librairie MICROB pour le développement de son logiciel de contrôle.

Pour en savoir plus :
http://www.robotique.ireq.ca/microb/fr/projets.html

SITE 17 : Elektra

Ce projet aborde des enjeux sociaux liés à la création commerciale de robots dotés d'intelligence artificielle et réagissant aux attentes et aux désirs humains.



Pour en savoir plus :
http://blog.elektramontreal.ca/index.php?/archives/473-Jessica-Field-Field-Studies-Robotique-tout-terrain-Oboro.html

SITE 18 :.reseaux-telecoms

L'opérateur mobile SFR s'est associé à Gostai, société spécialisée dans les logiciels de robotique grand public, afin de développer un robot personnel communicant.

Pour en savoir plus :
http://www.reseaux-telecoms.net/actualites/lire-un-robot-commande-par-telephone-mobile-3g-de-sfr-19527.html