

Project Humanoid's Robot "Rob & Ide"
XPLORE New Automation Award 2008 www.xplore.org
PHOENIX CONTACT www.phoenixcontact.it

Sede: Polo tecnologico ITIS"Augusto Righi" IPSIA"Oreste Mozzali" via per Caravaggio,52 Città Treviglio(BG)
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WORK TEAM

Project Manager , mechanical engineering :prof. Donato Mazzei

donato.mazzei@libero.it

Automation engineering : prof. Raffaele Nocerino Nocer24@tiscali.it

Technology engineering:.....

Communication Team :

prof. Isabella Benedetti isabenedetti1@yhao.it;

prof.ssa Lorenzi Carla carla.lor@alice.it

prof.ssa Linda Giannini calip@mbox.panservice.it

Website School: not active.... Works in progress

students of the electrical engineering and mechanics classes
Polo tecnologico ITIS" A.Righi:

the plan will be shared in net

Nets of Schools and Association

Network di Robotica Robot@Scuola www.scuoladirobotica.it/retemiur

prof.ssa Linda Giannini Istituto Comprensivo" Don Milani" Latina

prof.ssa Donatella Merlo Scuola Primaria "Nino Costa" Primo Circolo Didattico Pinerolo (TO)

prof. Bruno Vello ITI Don Bosco Sampierdarena (GE)

Itis Cannizzaro di Catania, Prof.ssa Laura Alfia Emmi

Prof.ssa Donatella Merlo MCE Movimento di Cooperazione Educativa Lonigo (VI)

prof. Carlo Nati Supervisore SSIS Università' del Lazio

Team Scuola di Robotica Genova: Prof. Gianmarco Veruggio, Ricercatore CNR - Presidente di Scuola di Robotica di Genova; Dott.ssa Fiorella Operto, Vice-Presidente di Scuola di Robotica di Genova, dott. Paolo Bianchetti, dott. Emanuele Micheli Ricercatori CNR Scuola di Robotica (Ge)

Blog Rob&ide:

<http://blog.edidablog.it/b2evolution/blogs/index.php?q=b2evolution/blogs/index.php&blog=275>.

Students of the Schools of the Net

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" Title The Humanoid's Robot " Rob & Ide"

SUMMARY: *the Project foresees the imagination, the Robot humanoid's design has the balanced forms of the vitruviano man's drawn by Leonardo Da Vinci. Its structure's design has around thirty degrees of movements freedom, will be completed with the software CAD 3 Ds Inventor Professional of the Autodesk Society. The Humanoid's Robot will be built and developed with a mechanical arm control endowed with a robotic hand. The prototype will be presented to this Board's examination and evaluation. The idea and the Project are shared by a net of Italian Schools spread throughout the Country. The Project's proposal and solution are shared online in the blog Rob&Ide history of Robot and Android:*

<http://blog.edidablog.it/b2evolution/blogs/index.php?q=evolution/blogs/index.php&blog=275>

Main comprehensive topic of technologies has been recognized: Pneumatic muscles www.shadowrobot.com; Robotic hand and fingers www.androidworld.com/prod77.htm ; mechanical articulation www.igus.com, electric connections and control systems of the Phoenix Contact. Other innovative technologies to be recognized (memory reading and other forms to be tested. We have called this Project" Rob&Ide" and this name also contains it's purpose:

- A trip in the world of robots and the near future of a group of schools.

With this robotics' Project, we want to involve, in an intense way, a group of students attending regular studies: electro-technical, mechanical, the laboratory of Industrial Automation of the Industrial Technical Institute and the whole Robotics network of schools engaged in the Project" Rob&Ide". The Phoenix Contact technologies will have a main role and they will be integrated with other technologies: electric connections, control systems and wireless systems of command.

Papers and Selected Articles

. www.androidworld.com



<http://www.anthrobot.com/tech/>



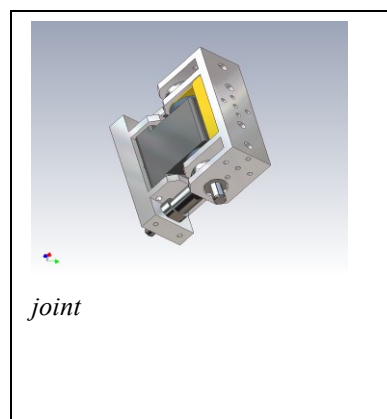
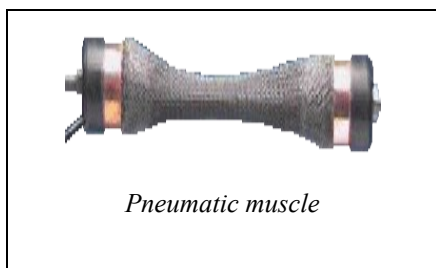
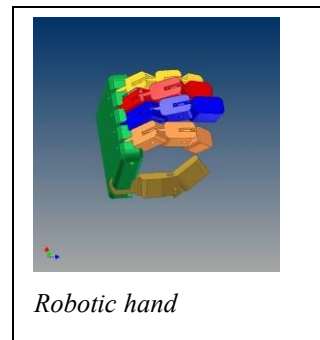
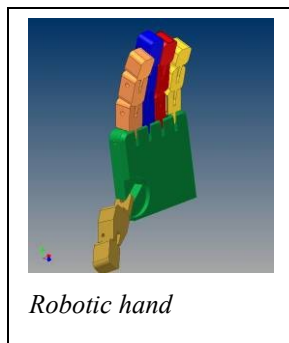
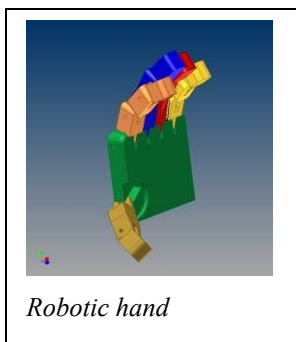
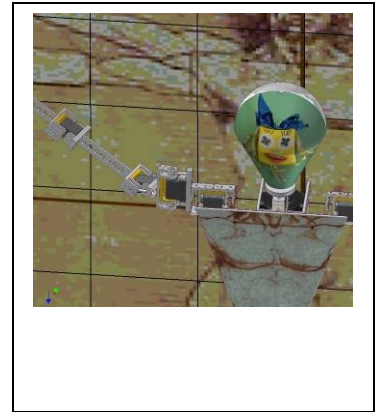
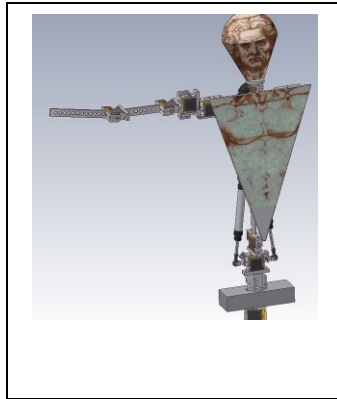
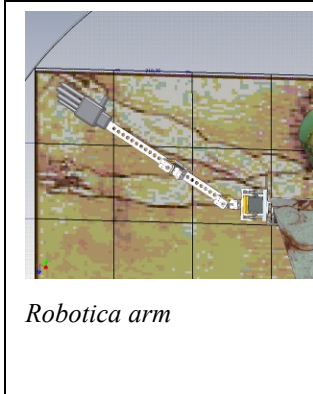
There inspire this project

<http://www.anthrobot.com/press/books.php>

prof. Donato Mazzei Project Manager , mechanical engineering : e-mail donato.mazzei@libero.it
prof. Raffaele Nocerino Automation engineering Nocer24@tiscali.it

Our solution : original.

our solution: robotic Hand and robotic arm.



Others solution : surprise!

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Because to choose this project?

Our project will offer a notable technological space, very visible, to the system of connection and control in the Phoenix, employed in a mobile robot, meaningful for the industry of the diversion, the didactics and the search. The project will finally offer an important didactic and educational experience to our students and an example of interdisciplinary study and particularly an innovative laboratory of technology robotics shared online