



ROBOTECH



SERVICE ROBOTICS

Member of the
Club of spin-off companies

ROBOTECH

ACADEMIC SPIN-OFF COMPANY OF THE
SCUOLA SUPERIORE SANT'ANNA OF PISA

ROBOTECH

DESIGNS AND
DEVELOPS
ROBOTIC
SOLUTIONS
FOR SPECIFIC
APPLICATIONS

ROBOTECH

DESIGNS AND DEVELOPS
EMBEDDED VOICE
RECOGNITION SOLUTIONS,
SPEAKER DEPENDENT OR
SPEAKER INDEPENDENT

ROBOTECH

DESIGNS AND DEVELOPS
ELECTRONICS FOR
THIRD PARTIES:
FROM DESIGN TO
MASS-PRODUCTION



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EDUCATION AND ENTERTAINMENT ROBOTICS



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I-DROID 01



EDUTAINMENT ROBOT

Programmable robot in construction kit.

A worldwide success: sold from 2005 to 2011 in Italy, Poland, Japan, Spain, The Netherlands, Portugal, Belgium and Brazil for a total of about 100,000 robots.

In cooperation with **De Agostini**.

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I-DROID 01

Winner in 2008 of the '**Fifth EURON/EUnited Robotics Technology Transfer Award**' with I-Droid 01.

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I-DROID 01



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SERVICE ROBOTICS



ROBOTECH DUSTCART

Service Robot for urban environment.
Garbage collection and transport, goods delivery and transport.
Autonomous navigation with obstacle avoidance.
Laser and differential GPS with centimetric resolution.
Touch screen, speaker and led for HRI.

Dimensions (l x w x h): **100 x 75 x 145 cm**

Weight: **150 Kg**

Max speed: **4.5 Km/h, 1.25 m/s**


Battery runtime: **about 10 hours**

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DUSTCART

First and sole worldwide outdoor robot tested with real users in a real environment to provide garbage collection service.

In cooperation with
Scuola Superiore Sant'Anna,
Synapsis (now **Dedalus SpA**),
Comune di Peccioli and **Belvedere SpA.**



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DUSTCART



SUMMER 2010 IN PECCIOLI

- 2 ROBOTS DEPLOYED
- 35 USERS INVOLVED
- 402 SERVICES PROVIDED
- 120 KM TRAVELLED
- 585 KG OF WASTE COLLECTED



ROBOTECH HYDRONET



ASV for monitoring water of coastal waters, lakes and rivers.
Autonomous navigation through a route of waypoints.
Surface water sampling system.
Sensors for measuring temperature, pH, turbidity, dissolved
oxygen, nitrate, dissolved hydrocarbons and oil slick.

Length: **2.29 m**

Weight: **75 Kg**

Draft: **25 cm**

Maximum speed: **4 knots**

Battery runtime: **6 hours at 2.5 knots**



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HYDRONET

Demonstrated at Isola del Giglio
around the wreck of Costa Concordia.

In cooperation with
Scuola Superiore Sant'Anna and
**Istituto Superiore per la Protezione e la
Ricerca Ambientale di Livorno.**



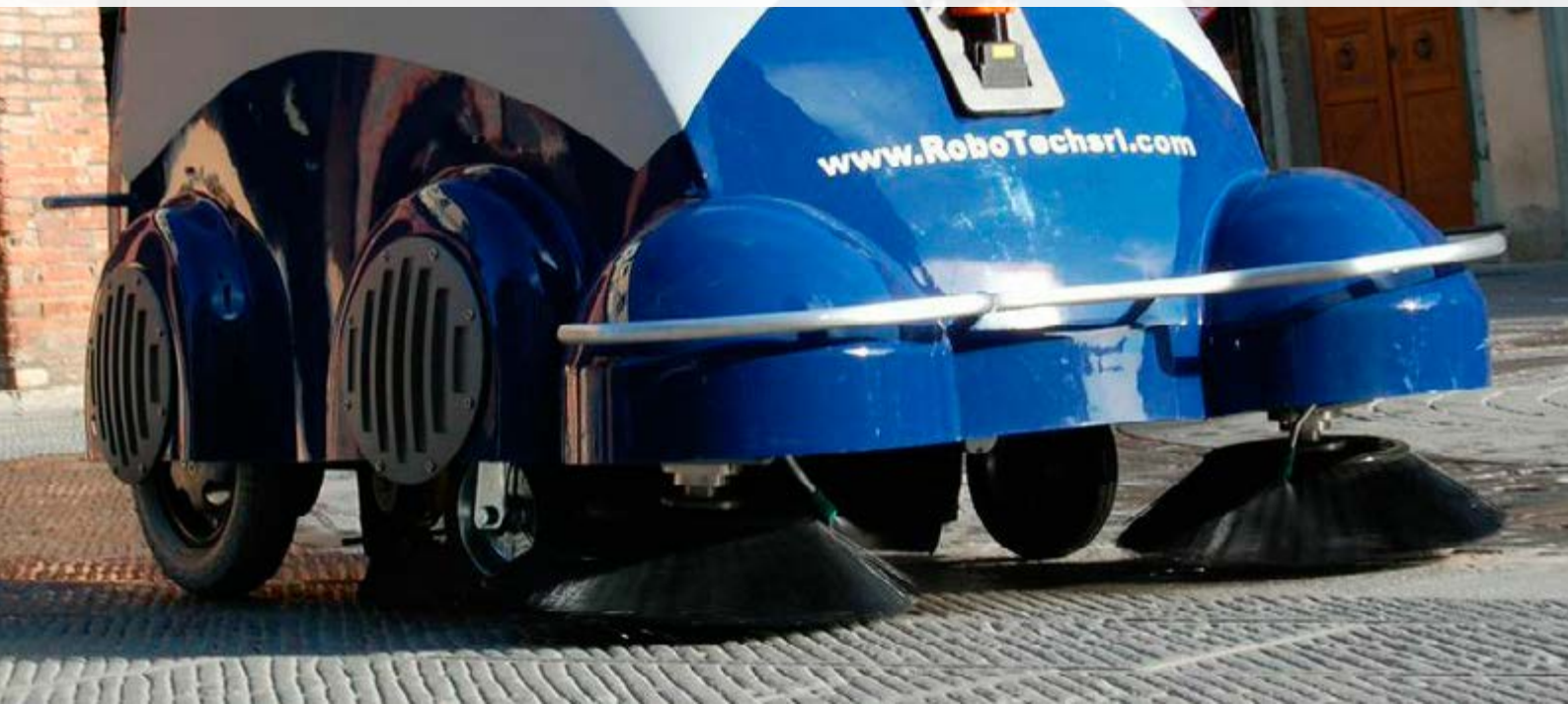
ROBOTECH
HYDRONET



SUMMER 2014 AROUND THE COSTA CONCORDIA WRECK:

- 1400 M TRAVELLED IN 45' FOR ACQUISITION AND ANALYSIS OF WATER SAMPLES
- 150 DATA ITEMS ON THE PRESENCE OF HYDROCARBONS ON THE SURFACE
- MORE THAN 250 DATA ITEMS CONCERNING PHYSICAL PROPERTIES OF WATER

ROBOTECH DUSTCLEAN



Road sweeping robot.
Autonomous navigation with obstacle avoidance.
Laser and differential GPS with centimetric resolution.
Brushes and container for garbage collection.

Dimensions (l x w x h): **165 x 112 x 96 cm**

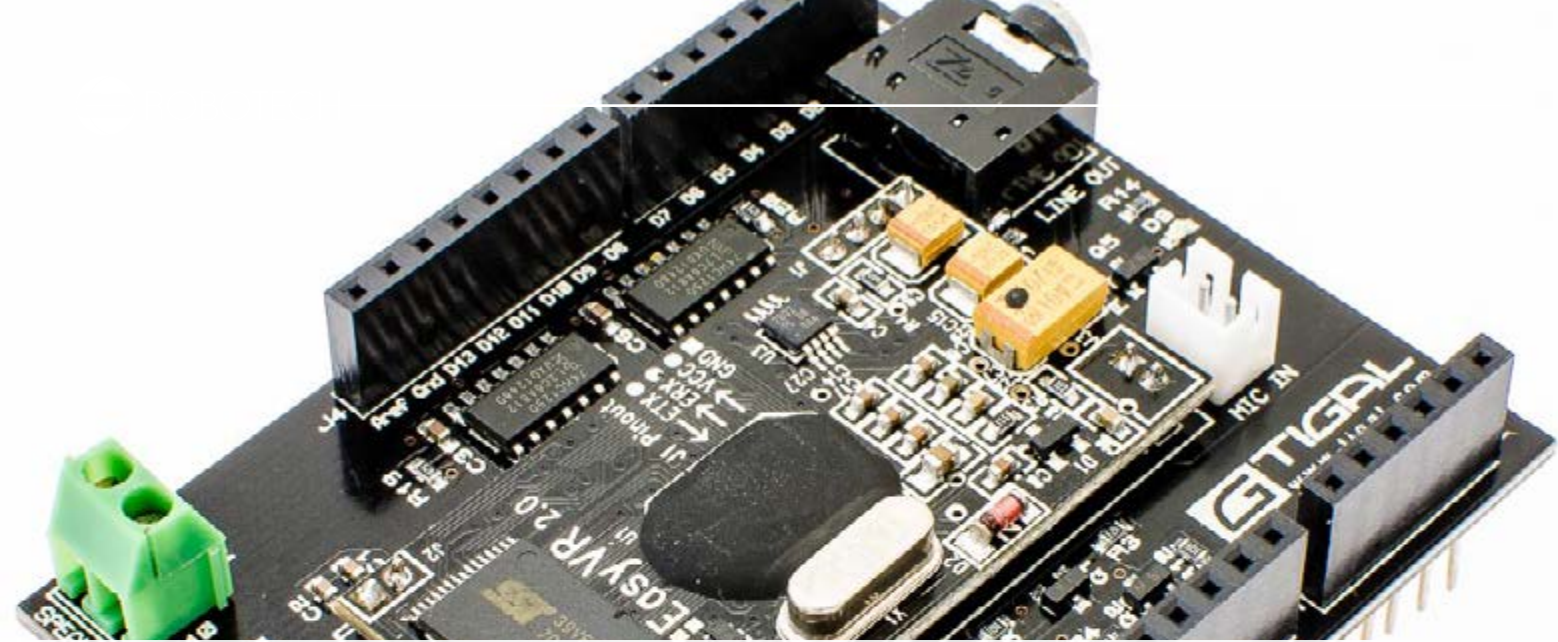
Weight: **150 Kg**

Max speed: **4.5 Km/h, 1.25 m/s**

Battery runtime: **about 6 hours**

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DUSTCLEAN



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VOICE RECOGNITION AND ELECTRONICS FOR THIRD PARTIES

Embedded speech recognition systems in the most common languages and for any kind of product, from toys to robots, from domestic appliances to vehicles.

From conception to design, from prototype samples to small series and large-scale productions.

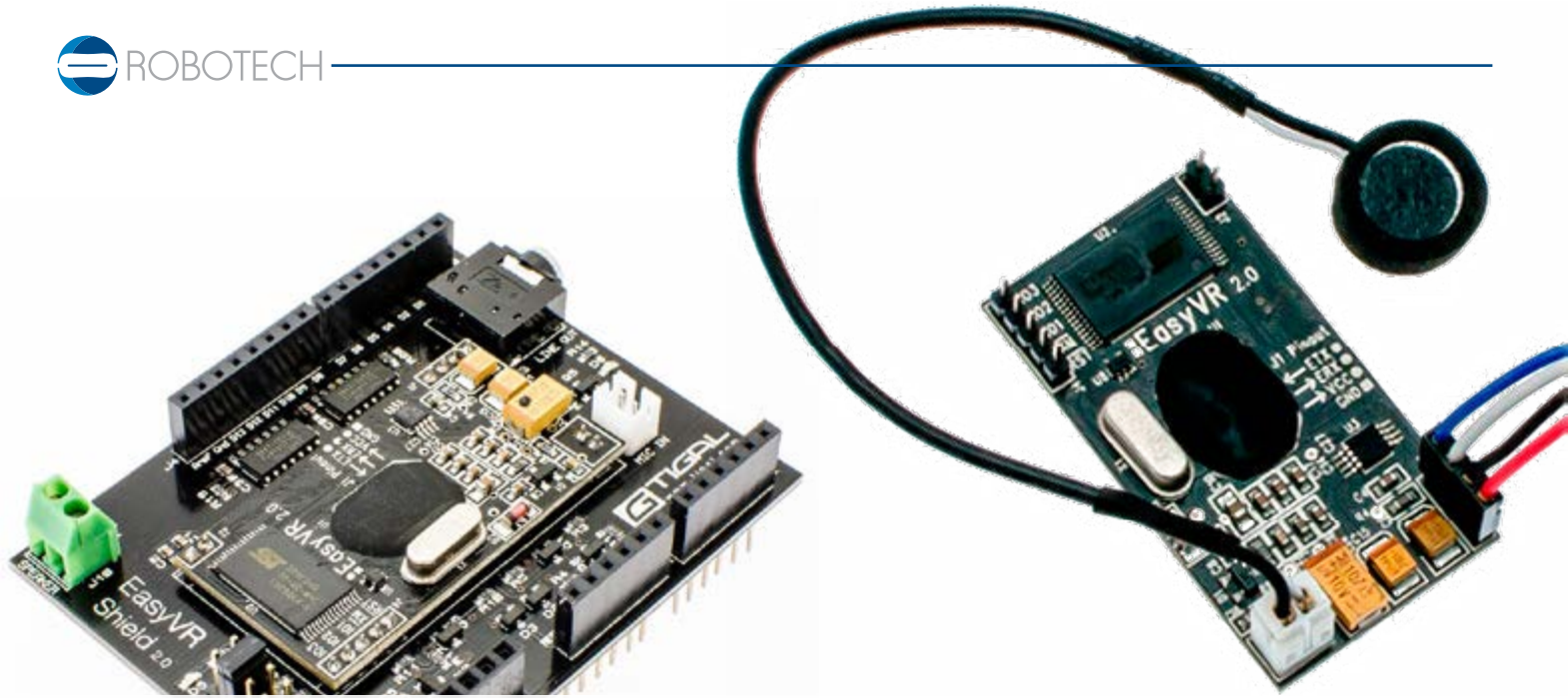
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VOICE RECOGNITION AND ELECTRONICS FOR THIRD PARTIES



Partner and only design house
in Europe of **Sensory.**

ROBOTECH
PARTNER



ROBOTECH

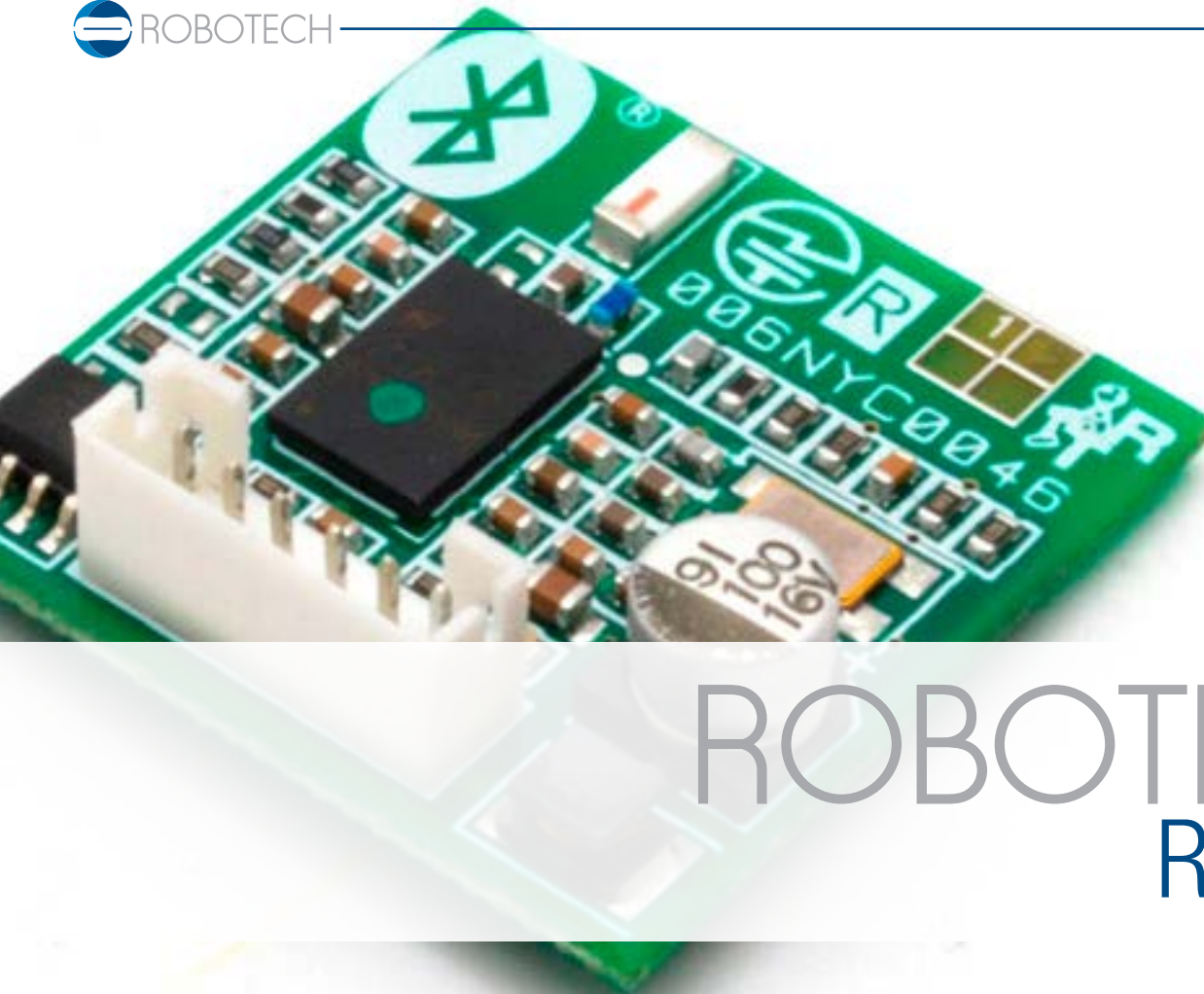
EASY VR & EASY VR Shield

Embedded modules for speech recognition with **Veear** brand
EASY VR - EASY VR SHIELD for **Arduino**.

www.veear.eu

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EASY VR & EASY VR Shield



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RBT-001

Bluetooth Class 2 module with
SPP (Serial Port Profile)
Robust and affordable.

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RBT-001



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RESEARCH AND DEVELOPMENT

ROBOTECH has been/is partner in national and international research projects co-funded by the European Commission.

DUSTBOT FP6-045299, 2006-2009

URUS FP6-045062, 2006-2009

HYDRONET FP7-212790, 2009-2011

ROBOT-ERA FP7-288899, 2012-2015

ROBOSWEEP Bando Unico R&S 2012, 2013-2015

ECHORD++ FP7-601116, 2014-2017

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RESEARCH AND DEVELOPMENT



WELL-TECH
AWARD 2014
RobotEra



LIVING LABS GLOBAL
AWARD 2012
DustClean



PROGETTO 'ITALIA
DEGLI INNOVATORI'
DustClean



PREMIO START UP
DELL'ANNO 2009
Finalista come azienda



FIFTH EURON/EUNITED ROBOTICS
TECH-TRANSFER AWARD
I-Droid 01

ROBOTECH RECOGNITIONS AND AWARDS



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CLIENTS



ROBOTECH srl

main office: largo Ciardelli • 56122 Pisa • ITALY

registered office: via Mazzini 82 • 19038 Sarzana SP • ITALY

phone: +39 050 960519 • VAT: IT01185460118

www.robotechsrl.com

