ROBOTECH

2015

SERVICE ROBOTICS

Spin Off
Impresa Spin-Off della Scuola Sant'Anna

Member of the
Club of spin-off companies

ROBOTECH

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

ROBOTECH

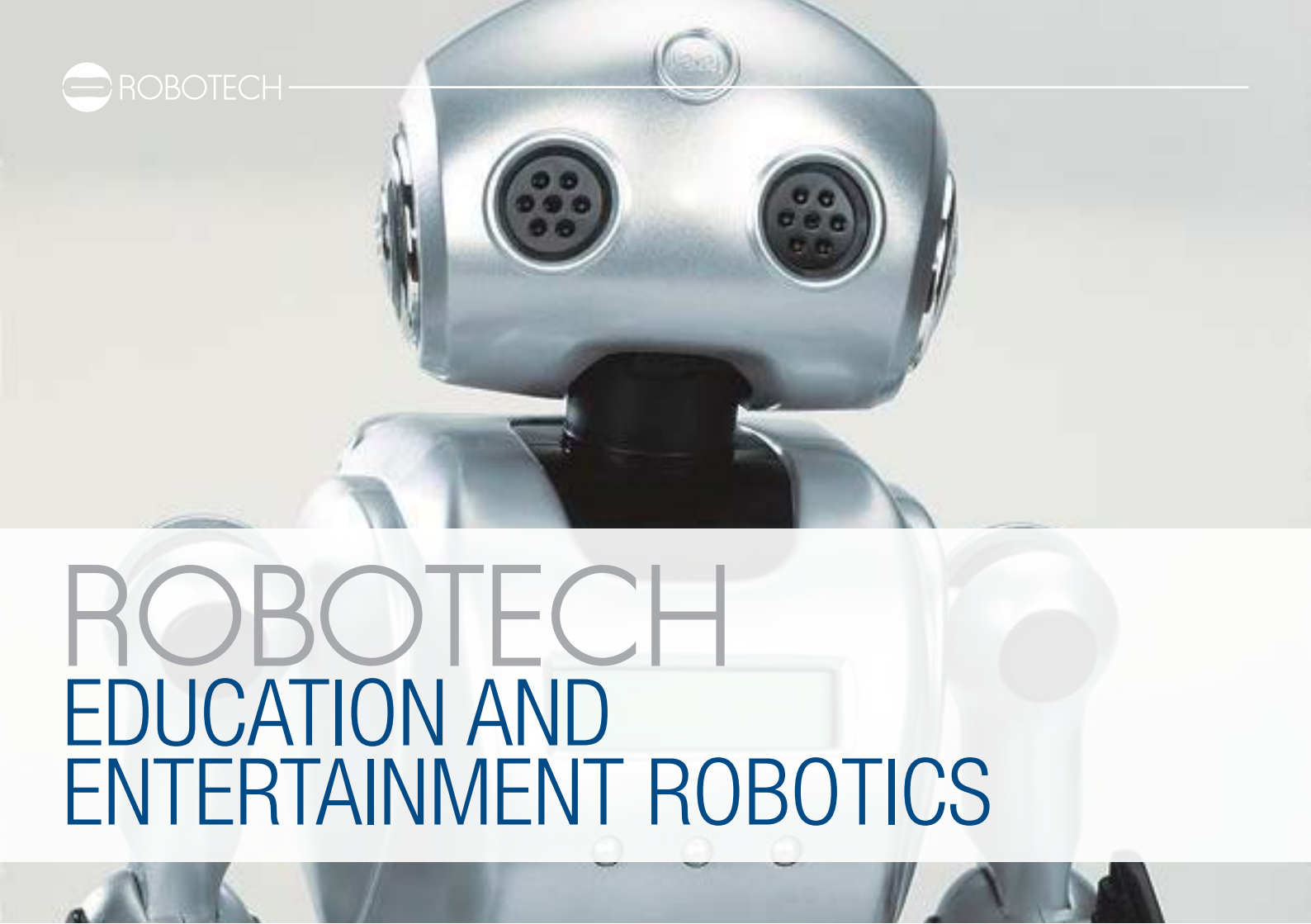
ROBOTECH

DESIGNS AND DEVELOPS ROBOTIC SOLUTIONS FOR SPECIFIC APPLICATIONS

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

ROBOTECH

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



ROBOTECH

ROBOTECH
EDUCATION AND ENTERTAINMENT ROBOTICS

ROBOTECH

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.**

ROBOTECH
I-DROID 01

ROBOTECH

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

ROBOTECH
I-DROID 01

ROBOTECH
SERVICE ROBOTICS

ROBOTECH
DUSTCART

ROBOTECH

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**

ROBOTECH
DUSTCART

ROBOTECH

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.

ROBOTECH
DUSTCART

SUMMER 2010 IN PECCIOLI

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

ROBOTECH
HYDRONET

ROBOTECH

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**

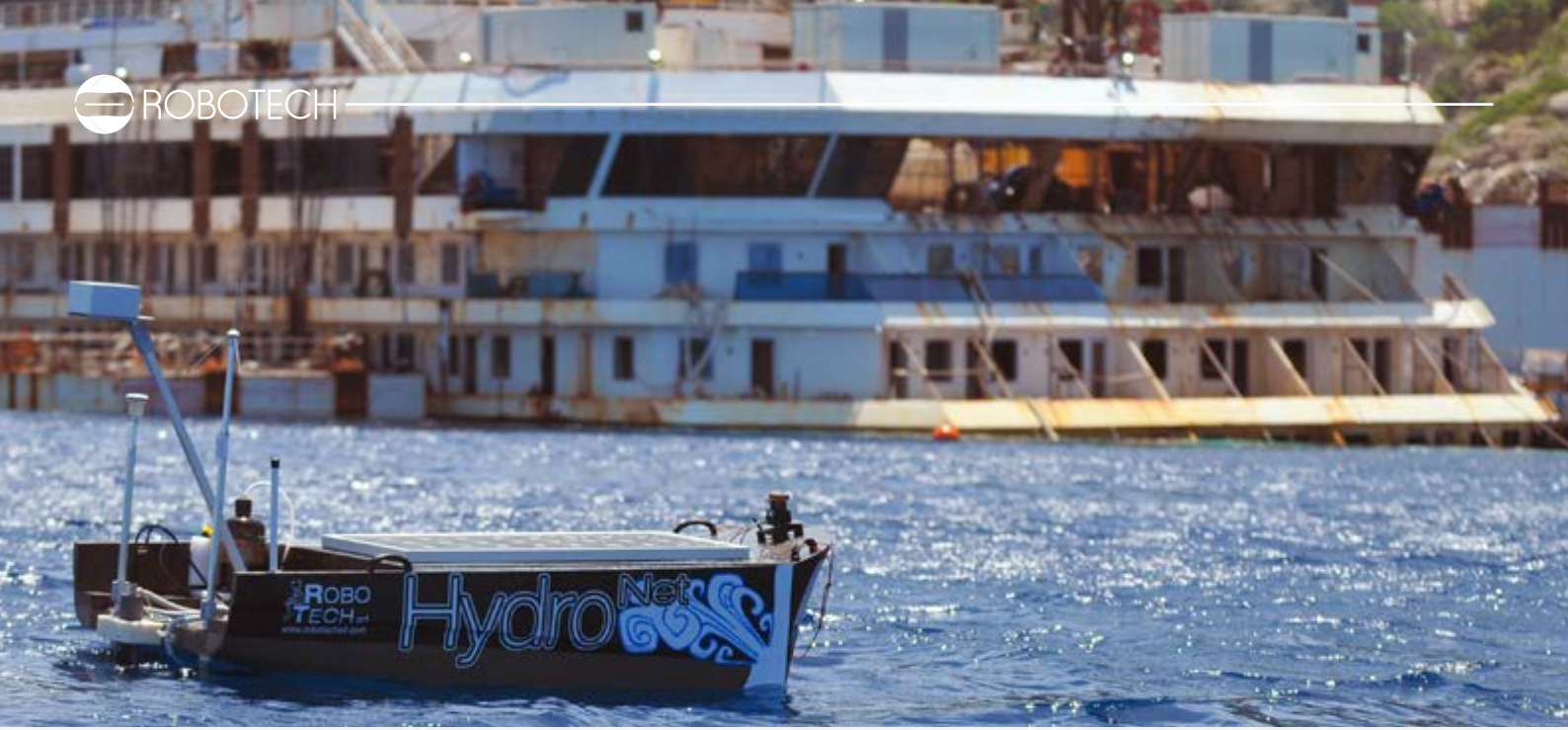
ROBOTECH
HYDRONET

ROBOTECH

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

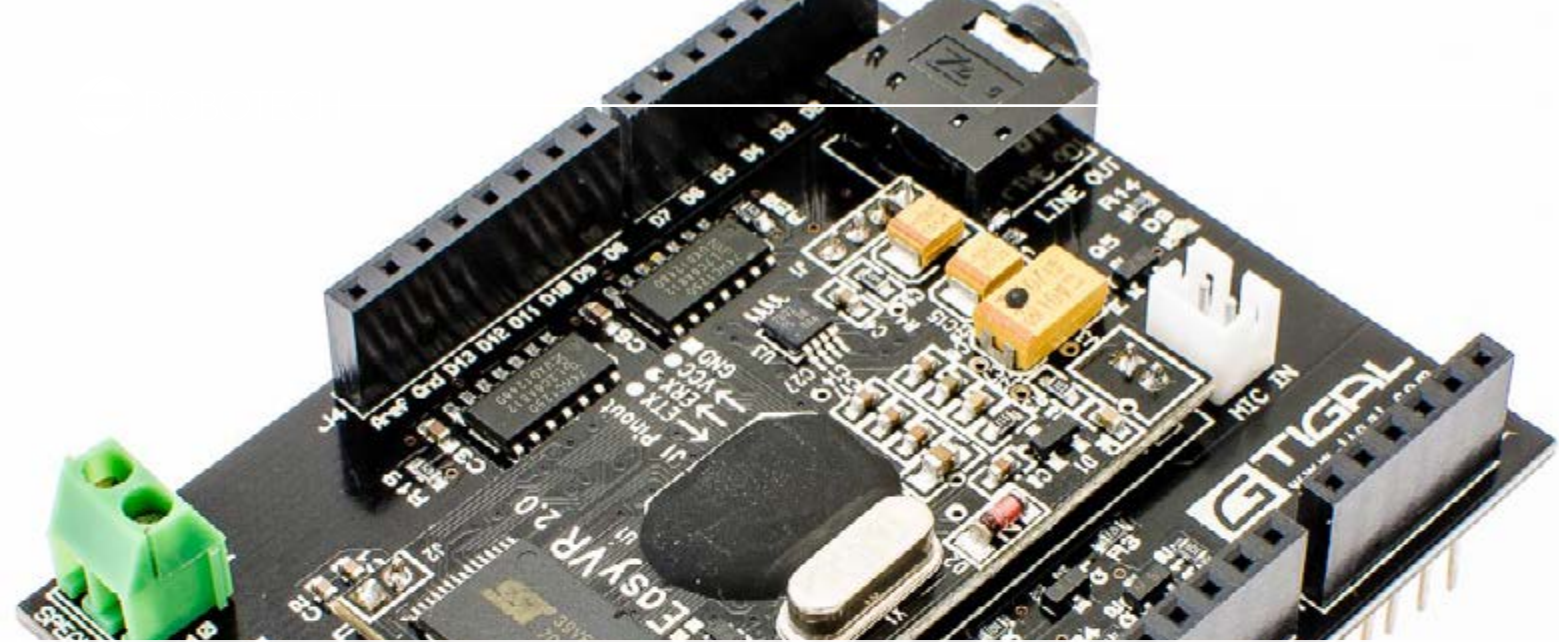
ROBOTECH
DUSTCLEAN

ROBOTECH

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**

ROBOTECH
DUSTCLEAN



ROBOTECH

VOICE RECOGNITION AND ELECTRONICS FOR THIRD PARTIES

ROBOTECH

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

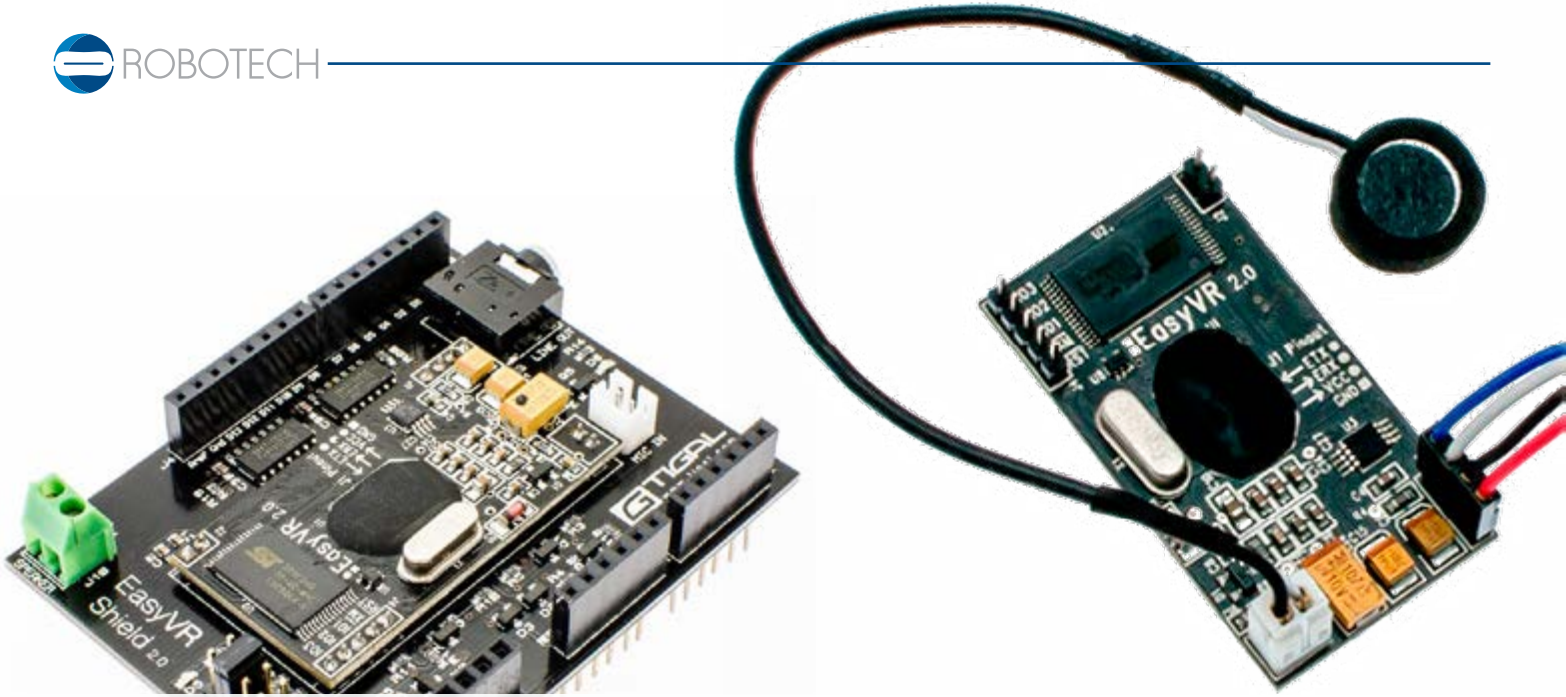
From conception to design, from prototype samples to small series and large-scale productions.

ROBOTECH

VOICE RECOGNITION AND ELECTRONICS FOR THIRD PARTIES

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

ROBOTECH
PARTNER



ROBOTECH

EASY VR & EASY VR Shield

ROBOTECH

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

www.veear.eu

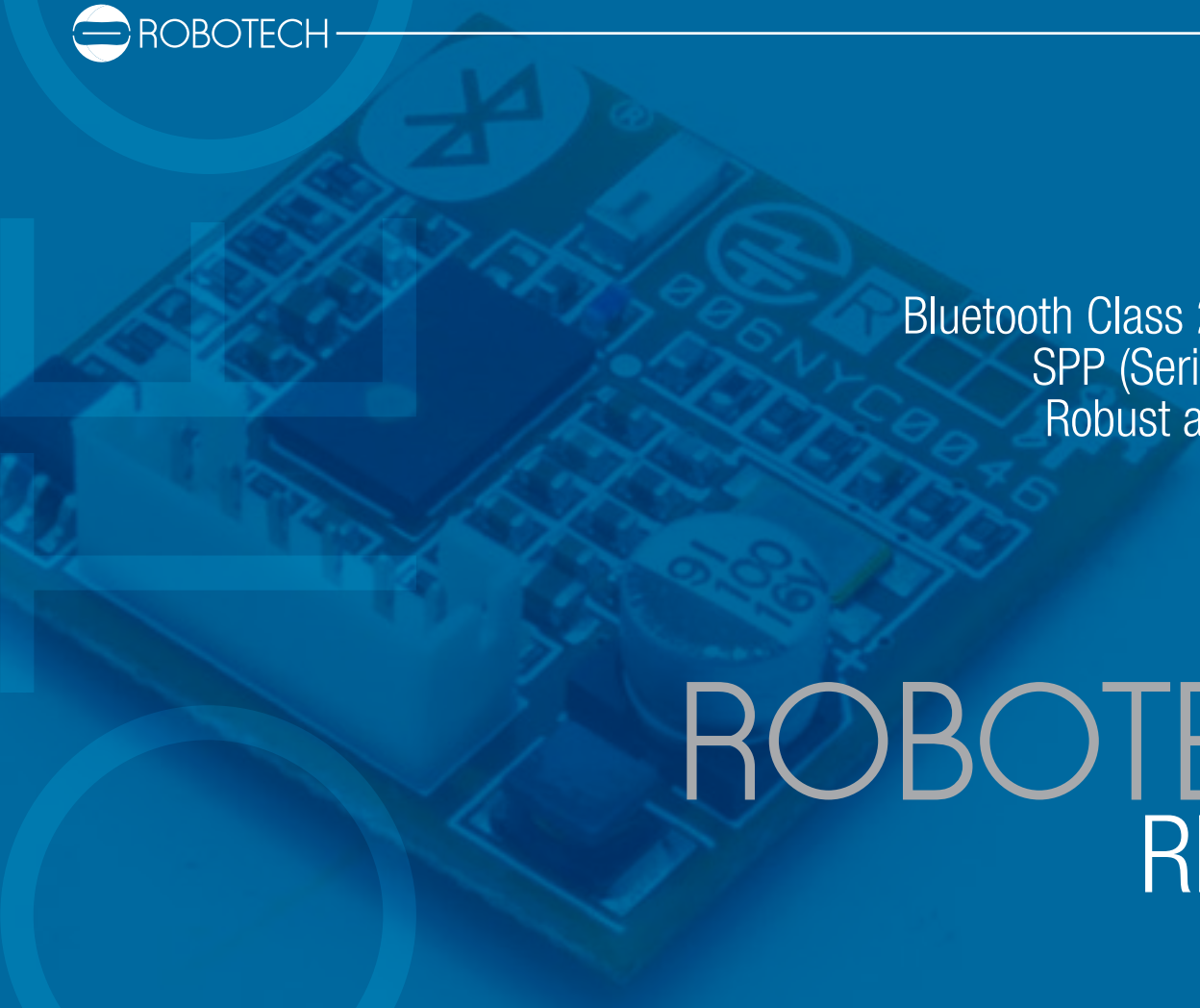
ROBOTECH
EASY VR & EASY VR Shield

ROBOTECH

ROBOTECH

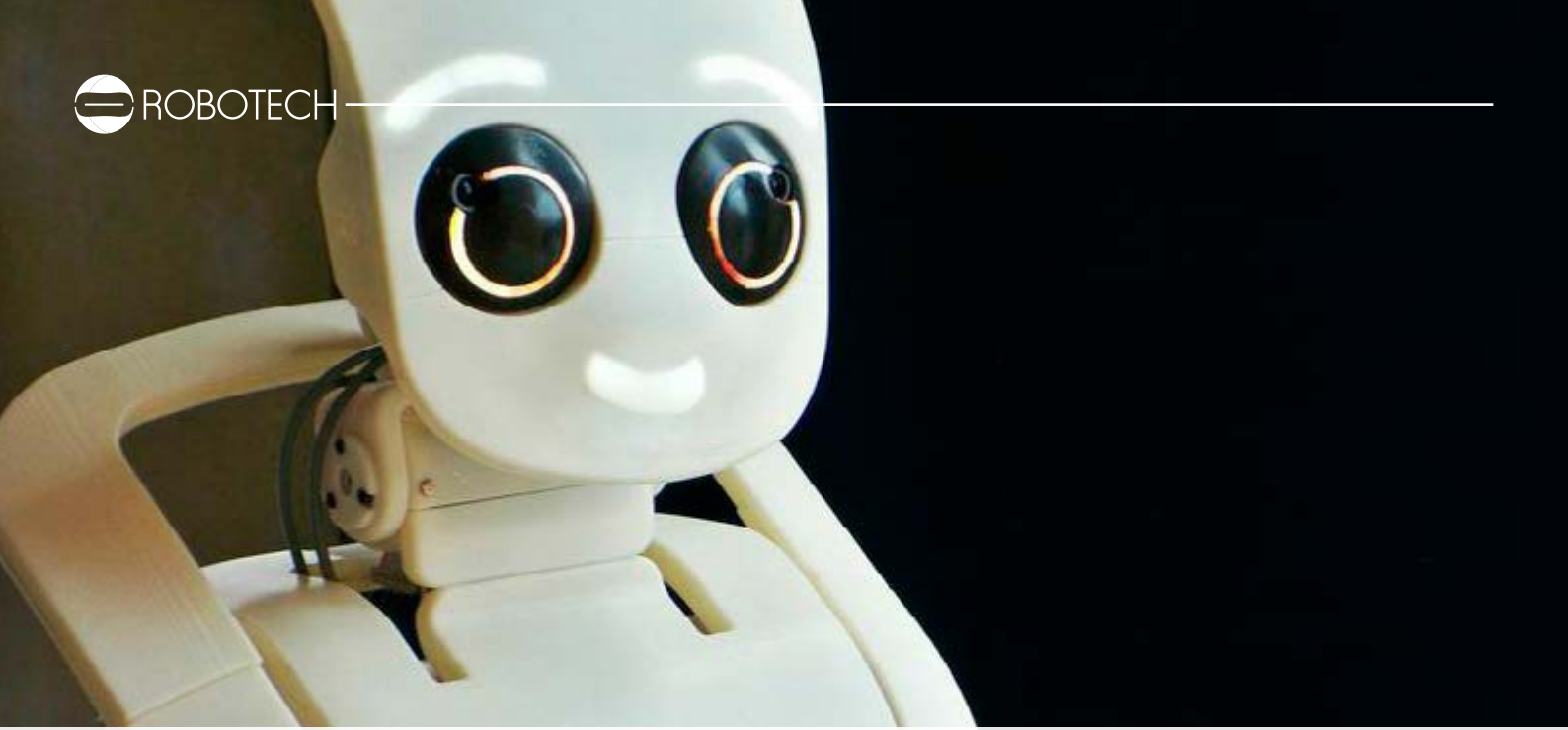
RBT-001

ROBOTECH



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

ROBOTECH
RBT-001



ROBOTECH

ROBOTECH
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

ROBOTECH
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

ROBOTECH
CLIENTS

ROBOTECH

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