

Company description

2010

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The company



- Founded in 2002 as spin-off company of the Real-Time Systems Lab at Scuola Superiore S.Anna
 - 15+ years of experience in real-time and embedded systems
 - Collaborations with research centers in Europe and USA
 - Involved in several European projects
- Mission: design and development of software for small electronic devices
 - From your needs to <u>your</u> application!
 - Real-Time Operating Systems (RTOSs)
 - Open-source or commercial software

EVIDENCE®

Most innovative young Italian entrepreneur

March 12, 2007
Evidence founder Paolo Gai selected by
"Corriere della Sera" as one of the most innovative Italian young entrepreneurs

Sondaggio Un panel di dieci esperti elegge per il Corriere Economia il Gotha degli under 50. Che saranno famosi

Imprenditori emergenti: ecco i 30 più innovativi

Hanno una forte propensione internazionale. Sanno usare gli strumenti finanziari, dal private equity alla Borsa. Nuovi prodotti, nuovi processi, old economy reinventata

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MEVIDENCE®

(some) customers and partners

OSEK. microcontrollers, schedulability analysis















Linux, SW devel.























Partnerships











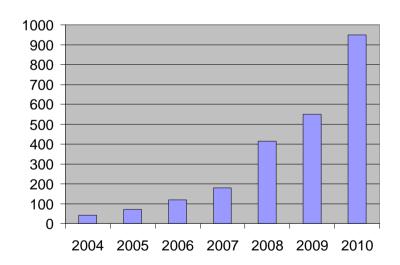


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Information about the company

- 8 Board members
- 17+ Full-Time employees
- 3+ Part-Time employees
- Current revenue (2009): 532000 Euro
- Planned revenue (2010): 950000 Euro





Products and services

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Embedding your needs...



From hardware...

- 1. Hardware design (through our partners)
- 2. Operating system selection and porting
 - 3. Application Development

...to your embedded application!



Services

Consulting

- Real-time and time sensitive applications
- Embedded systems
- Planning the right move to Linux

Development

- Design of electronic devices
- Development of firmware
- Design and development of complex software
- Software for your specific hardware (e.g., Linux drivers)
- Custom Embedded Linux distributions

EVIDENCE EMBEDDING TECHNOLOGY

Products

Real-Time Operating Systems:

- ERIKA Enterprise ERIKA ENTERPRISE Tiny RTOS
- Embedded Linux EVE) LINBSP High performance OS

Development tools:

- RT-Druid
- Evelin SDK



EVE LINSDK – For Embedded Linux

Hardware:

- Flex
- GEA



- Eval boards
- Linux Embedded boards

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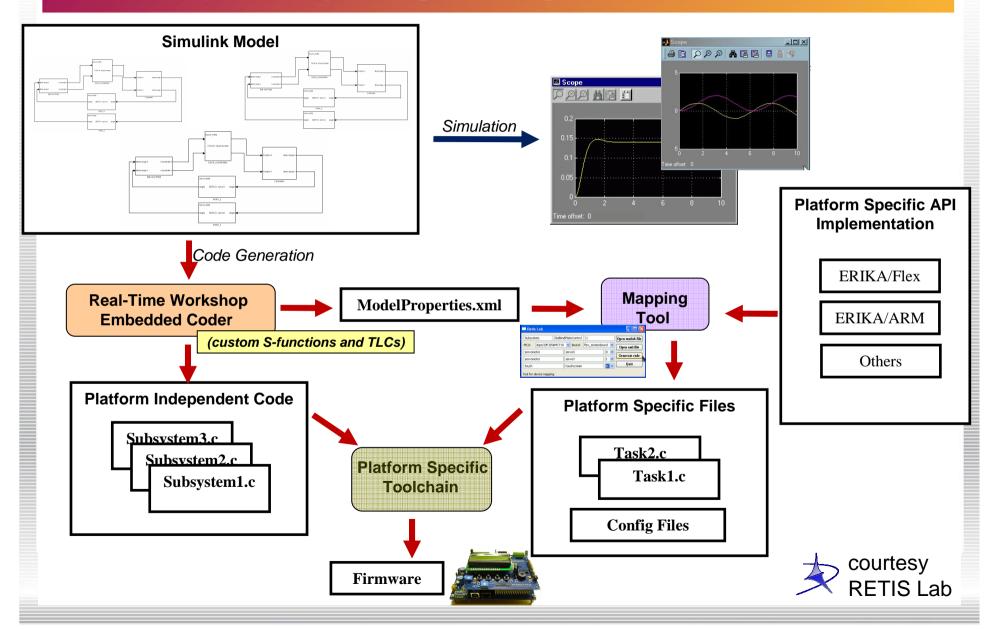
ERIKA Enterprise RTOS



- Real-Time Operating System (RTOS)
- Performance and high efficiency:
 - Advanced real-time scheduling algorithms
 - RAM: Stack sharing to limit RAM consumption
 - Flash: very low footprint (1-4 KB)
- Portable API based on automotive standard (OSEK/VDX)
- Supports a wide range of microcontrollers
 - Support for multicore systems
- See http://erika.tuxfamily.org

EVIDENCE EMBEDDING TECHNOLOGY

Fast prototyping using Matlab/Simulink



Embedded Linux

- Linux is a better choice than proprietary solutions:
 - Simple and elegant design
 - Stable, robust, secure
 - Excellent performance
 - No royalties
 - Free source code and development tools
- We embed the power of Linux to satisfy <u>your</u> needs
 - Configuration, customization and tuning of each single part
 - Development of custom drivers for your hardware
 - Development of applications with graphical interface
 - Technical support and guarantee

EVIDENCE EMBEDDING TECHNOLOGY

Among best companies for Linux

- Evidence engineers have a deep knowledge of kernel internals and collaborate daily with the most important kernel developers
- Since December 2008 Evidence is in the official list of companies that contributed to the Linux kernel:
 - http://remword.com/kps_result/
 - Evidence contributed to the development from release 2.6.28





GEAM6425

- Architecture: Freescale iMX25 (ARM9) 400 MHz
- Display: QVGA + touchscreen
- Memory:
 - 64 MB DDR2 RAM
 - 256 MB NAND Flash
 - 1x SD Card
- Communications:
 - 1x USB OTG
 - 1x USB HOST
 - 1x Ethernet 10/100
 - 5x UARTs (RS232 and RS485)
 - 1x I2C Bus
 - 2x CAN Bus
 - 3x CSPI
 - 1x I2S





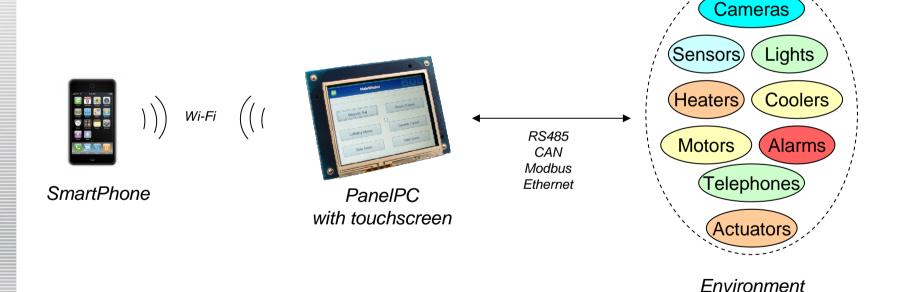
Powered by
Linux and
QT graphics!





Monitoring and control

- Intelligent environments
- Real-time monitoring and control
- iPhone integration





GEA M6425: Main markets

Multimedia:

Audio/Video players, wiki/e-book readers

Domotics:

Panel PC for controlling house equipments

Telecommunications:

Navigation systems, VoIP servers, gateways

Human-Machine Interfaces (HMIs):

- Control of heaters, coolers, washers and other machines
- Prototyping of graphical interfaces

Automotive:

Alarm systems, automotive units and displays

Sensor networks:

Videosurvellaince (webcams or IP-cams)

Control systems:

 Industrial controls, robots, biomedical devices, RFID readers (thanks to Ethernet+CAN+RS485)

Education:

Development of embedded applications on Linux





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Research Projects



EU Projects (FP7)

- FP7 ARTIST Design
 - Network of Excellence for spreading out the knowledge on real-time systems
- FP7 ACTORS (36m, end jan 2011)
 - Adaptivity and Control of Resources in Embedded Systems
 - Resource reservation with Linux on Multicore ARM11
 - Partners: Ericsson Res. Labs, Scuola S. Anna, TU Kaiserslautern, Ec.
 Polytechnique Féd. de Lausanne, Lund University, AKAtech SA



- FP7 INTERESTED (36m, end dec 2011)
 - INTER-operable Embedded Systems Toolchain for Enhanced rapid Design, prototyping and code generation
 - Partners: ESTEREL, AbsInt, TTTech, Symtavision, UNIS, Artisan Software, Sysgo, Airbus, Magneti Marelli, CEA, Thales, Siemens



- FP7 ERA (36m, end dec 2012)
 - Embedded reconfigurable Architecture
 - Reconfiguration framework based on embedded Linux / Microblaze on Xilinx FPGAs
 - Partners: TU Delft, Univ Siena, ISI (Gr), Univ edimburgh, Univ. Chalmers, ST microelectronics, IBM Israel, univ Rio Grande del Sur



Regional projects

- IPERMOB (18m, end apil 2011)
 - Infrastruttura Pervasiva Eterogenea Real-time per il controllo della Mobilitá



- Evidence provides embedded sensors based on PIC32 and FPGAs
- Partners: Scuola S. Anna, Intecs, Aleph, SAT, CNR
- ASCOLTA (24m, end may 2011)
 - Assistenza domiciliare allo SCOmpenso cardiaco attraverso Le Tecniche Avanzate di comunicazione digitale
 - Evidence provides embedded software on wireless devices for ECG/pressure sensing
 - Partners: CAEN, EMAC Srl, DEVELER, SINRGEST, ARCHA, Scuola S. Anna, Dip. Cardiotoracico Univ Pisa





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