Magneti Marelli Powertrain (Bologna, Italy) to support Evidence Srl's ERIKA Enterprise

The challenge for quickly developing new automotive products with a constant pressure for cutting costs, and at the same time moving towards AUTOSAR, demands continuous innovation of software components and tools used in production.

Open source software can play an important role in this scenario, mainly due to its low-cost and immediate availability. Magneti Marelli Powertrain announces the support for the open source royalty-free project ERIKA Enterprise (http://erika.tuxfamily.org).

ERIKA Enterprise, initially developed by Evidence Srl and by the ReTiS Lab of the Scuola Superiore S. Anna, is an Open Source Real-Time Operating System specially tailored for automotive systems and implementing an API similar to the OSEK/VDX specification. The OSEK/VDX specification is the heart of the operating system of most automotive electronic devices, including those developed in the Powertrain area.

Magneti Marelli Powertrain will support ERIKA Enterprise by providing architecture portings for various microcontrollers which will be used in its future Powertrain related products. Also, in relation to the ongoing EU FP7 INTERESTED (http://www.interested-ip.eu/) project, there is a substantial work commitment for directly supporting AUTOSAR configuration and code generation.

Magneti Marelli, based in Italy (Corbetta, Milan),is an international company committed to the design and production of hi-tech systems and components for the automotive sector. With a turnover of € 5.4 billion in 2008, about 33.000 employees, 67 production sites (80 production units), 10 R&D centres and 28 application centres, the group has a presence in 16 countries (Italy, France, Germany, Spain, Poland, Czech Republic, Russia, Slovakia, Turkey, the United States, Mexico, Brazil, Argentina, China, Japan, India, Malaysia and South Africa). Magneti Marelli supplies to all leading car makers in Europe, North and South America, and Asia. Magneti Marelli Powertrain is Magneti Marelli's business line dedicated to engines and transmissions components production for cars, motorbikes and light vehicles.

Evidence Srl, based in Italy, was established at the end of 2002 as a spin-off of the ReTiS Lab of the Scuola Superiore Sant'Anna (Pisa, Italy) by a group of researchers expert in real-time scheduling analysis, operating systems, control systems, and multiprocessor scheduling techniques. Evidence operates in the field of software for embedded real-time systems and provides innovative software solutions for the design and development of real-time embedded systems, with a special focus on multi-core hardware platforms. Today, Evidence is a dynamic company having collaborations in the field of electronics, telecommunications, automotives, and industrial automation markets. Evidence has developed Open-Source Real-Time Operating Systems (RTOSs) for small microcontrollers (It is leading the development of the ERIKA Enterprise RTOS) and other operating systems (Embedded Linux) for embedded devices.

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