

Press release – October 2011

Aprilia Racing: on the usage of open source software for superbike engine control

Aprilia Racing announces today its support for the open source royalty-free project ERIKA Enterprise (<http://erika.tuxfamily.org>). In particular, Aprilia Racing will adopt the open source RTOS ERIKA Enterprise for the next generation WSBK superbike engine controllers.

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 hearth of the Operating System of most Automotive electronic devices, and it is gaining more and more usage inside the motorbike controller area.

Aprilia Racing Srl is an Italian motorcycle company, part of the Piaggio Group, the world's fourth largest motorcycle manufacturer. Aprilia Racing is very active in motorcycle sports. It contests many Road Racing formulae, including the FIM 125 cc World Championship, the FIM 250 cc World Championship, and the now-defunct FIM 500 cc World Championship. From 2002 to 2004 they participated in the FIM MotoGP World Championship, and from 1999 to 2003 they participated in the FIM Superbike World Championship. Aprilia Racing has now returned to World Superbike for the 2009 season with Max Biaggi and Shinya Nakano as their factory riders both piloting the RSV4. In February 2008, Aprilia debuted a V-4 superbike the RSV4 for the 2009 Superbike World Championship season.[2] On 15 August 2010, Aprilia Racing became the most successful motorcycle racing brand in history, surpassing fellow Italian MvAgusta with a record 276th victory. On 26 September 2010, Aprilia Racing won with Max Biaggi the 2010 SBK world championship.

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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