Open Source Automation Development Lab (OSADL) eG

OSADL Welcomes AMD and Three More New Members

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AMD and three more members join OSADL

AMD

OSADL is glad to announce that Advanced Micro Devices (AMD) recently joined OSADL as silver member.

The recently released AMD Embedded G-Series also known as eOntario brings a number of important advantages to the world of embedded systems. Having CPU and GPU on the same die, forever solves the problem of an otherwise still useful board design that can no longer be produced, because the graphics chip was discontinued. In addition, avoiding interface output drivers and buffers – required when CPU and GPU are on different chips – appears to save a lot of power.

An engineering sample of the AMD Embedded G-Series processor G-T56N is running in OSADL's real-time QA farm since several weeks in a very stable and reliable way. The generated real-time performance data are publicly available in the same way as for the more than 25 other systems under continuous testing (osadl.org/QA).

AMD is joining OSADL, among others, to underline its commitment to embedded systems and to provide the machine and automation industry with processors that suit their needs.

DSM4 Spain

OSADL's first Spanish member company is the software engineering company Desarrollo Software Miramón 4 S.L. (DSM4) located in San Sebastian, at the north of Spain. The company is specialized in the creation of innovative software solutions for complex automation and control requirements. DSM4's experience reaches from railway technology to the development of numerical control machines.

DSM4 engineers provide
- Development and management of industrial software of any kind
- Software testing and quality assurance
- Consulting for software development and engineering

Recently, the company has noted an increase of projects and requests with respect to Linux and Open Source – this was the main reason to join OSADL.

Eberspächer Germany

The name "Eberspächer" is very famous, and everybody immediately thinks of vehicle heaters that are, of course, an important part of the Eberspächer group. The Eberspächer Electronics GmbH & Co. KG, however, has a separate field of activity – still in the automotive business, though. They have been in the marketplace with products associated with FlexRay and vehicle networking technology for 10 years now. When the company decided to release a Linux driver for one of their FlexCard interface cards, it was decided to join OSADL to get the best possible connections to people who actively work in this part of the Linux kernel.

OpenTech Austria

The OpenTech EDV Research GmbH, founded in 2003, is an SME located in Bullendorf, Austria. Being strongly associated with the Distributed Embedded Systems Lab of Lanzhou University (http://dslab.lzu.edu.cn), the focus of OpenTech is industrial research of core technology in the area of distributed embedded real-time operating systems in a safety critical environment. OpenTech's manager Prof. Nicholas Mc Guire became OSADL's Safety Coordinator in 2008; one of his first actions was to found the Safety Critical Working Group of OSADL that he is leading since then.

Major activities of OpenTech in the safety area are:
- Seminars on Linux for safety related systems
- Advanced tooling (based on formal and semi-formal methods)
- Development of safety concepts for FLOSS
- Bridging the sometimes contradicting needs of safety and security

Welcome new members!

Welcome AMD, DSM4, Eberspächer and OpenTech at OSADL! Thank you for joining us and, thus, increasing the number of shoulders to bear our projects. These projects are helping the automation and machine industry as well as manufacturers of embedded systems in general to get the most out of Open Source software.

Figure

OSADL Member Poster as of March 2011

A high-resolution bitmap file of this image is available at:
https://www.osadl.org/uploads/media/OSADL-Member-Poster-2011-03.jpg

About Open Source Automation Development Lab (OSADL):

The Open Source Automation Development Lab (OSADL) started its activities in summer 2006 and is organizing since then the development of Open Source software for automation companies and for the industry in general. Among others, OSADL is acting as a "purchase community" of Open Source software, i.e. the membership fees are used to delegate the development of Open Source software projects that the majority of the members is requesting for or agreeing to. In addition, OSADL provides support with practical and commercial aspects of using Open Source software in the industry. This includes subexhibitor booths at relevant trade fairs, seminars and workshops, legal assessments and collaboration with academia. Current OSADL software projects focus on real-time and safety critical Linux, I/O framework, real-time Ethernet and other special drivers for the Linux mainline kernel as well as virtualization and tools to migrate a project to Linux.

The OSADL member companies employ altogether more than 100,000 people, generate a sales volume of more than 100 billion euros and are machine companies, manufacturers of automation hardware and software, semiconductor companies, Open Source software service providers and user associations.

More information at: http://www.osadl.org/

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