Embedded Daily
Wednesday 2/1

Five Minutes With…Ted Marena, Director, Microsemi


Rich Nass, Embedded Computing Brand Director

If you're in the know, you're aware of the RISC V initiative . If not, let me fill you in. it's an instruction set that you can develop a core around. It's sort of like the ARM instruction set. But there's a big difference—it's open source. In this week's Five Minutes with… segment, I discussed RISC V with Ted Marena, a Director at Microsemi , and someone that deep in the throes of the technology. Another opinion is available from Technology Editor Brandon Lewis. **Continued...**

2017 embedded processor report: At the edge of Moore's Law and IoT


Brandon Lewis, Technology Editor

With the benefits of Moore's Law waning and the Internet of Things (IoT) targeting an untold number of lower end devices, embedded processor vendors are now tailoring solutions to the specific needs of end customers and applications more than ever before. The result? An emphasis on power efficiency, security, development tools, and cost.

Untethering virtual assistants from Wi-Fi


Todd Mozer, Sensory, Inc.

The hands-free personal assistant that you can wake on voice and talk to naturally has significantly gained popularity the last couple of years. This kind of technology made its debut not all that long ago as a feature of Motorola's MotoX, a smartphone that had always-listening Moto Voice technology powered by Sensory's TrulyHandsfree technology. Since then, the always-listening digital assistant quickly spread across mobile phones and PCs from several different

brands, making phrases like, “Hey Siri,” “Okay Google,” and, “Hey Cortana,” commonplace. Then, out… **Continued...**

My search for meaningful Industrial IoT knowledge

Dan Yarmoluk, ATEK Access Technologies

As product managers, technologists, and business development professionals look for ways to customize solutions, products, and business models for the Industrial Internet of Things (IoT), we’re increasingly hungry for quality information. Most of what we read today are great forecasts of billions of connected products and how information will lead us through a “fourth industrial revolution.” Secondarily, we read of how algorithms and models that lead to better predictive techniques, big data, machine learning, and artificial intelligence as a panacea for growth. While I… **Continued...**

AWS, Microchip create a more secure connection to the cloud

Eustace Asanghanwa, Microchip

The rise of the Internet of Things (IoT) has created a new set of security considerations for the cloud. Now not only do you need to safeguard the data inside an IoT gateway or node, but you must also ensure the device can securely communicate with cloud servers – and this has become one of the next big challenges for design engineers. One of the most prominent players in the cloud space, Amazon Web Services (AWS), tackled this challenge early by adopting a mutual… **Continued...**

Monitoring and Securing IoT Data and Communications - Class 2 of "Device Management 101"
In our second class, we will begin at the heart of the Internet of Things - the sending and receiving of data. Whether it is collecting a simple room temperature reading or capturing a video frame for analysis, the IoT enables us to collect huge amounts of data for analysis then send out data in the form of commands or as human-readable data. Sponsored by: Wind River
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Consumer electronics spur haptic technology market

Khusro Khan, Transparency Market Research

Haptic technology is technology that recreates the sense of touch through vibration or other means. One of its earliest applications was in large aircrafts where controls surfaces were operated through a servomechanism system that provided negative feedback when it sensed error. The servo systems were modified with weights and springs that would send vibrations to the controller in

the pilot's hand whenever threats were detected. Modern haptic technology utilizes sensors to measure the amount of force exerted by the user on the user interface… **Continued...**

A look at NB-IoT and LP-WAN from the top

Brandon Lewis, Technology Editor

The low-power, wide-area networking (LP-WAN) market is beginning to take form, with technologies such as LoRa, Sigfox, and LTE Cat-NB1 (formerly NarrowBand-IoT (NB-IoT)) looking to fill the void left by sunsetting 2G networks that connected a variety of Industrial Internet of Things (IIoT) devices. While this sector promises to be a significant contributor to the number of overall IoT connections in coming years thanks to the comparatively low cost of the enabling network technologies, exactly which of these will emerge as viable large-scale solutions… **Continued...**

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