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My search for meaningful Industrial IoT knowledge


Dan Yarmoluk, ATEK Access Technologies

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 agree with those statements, there's a lack of domain-specific information for driving… 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...

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...

Cellular technologies influence OHV telematics


Abhishek Budholiya, Future Market Insights

Wireless data communications can be effectively integrated with the interdisciplinary mechanism within current automobile telematics systems. The influence of wireless or radio-based communication technologies is seeing further use in off-highway vehicle (OHV) telematics, compared to on-road vehicles. The efficiency of OHV telematics is contingent upon the specific technologies used, which can span multiple domains, such as telecomm, transportation, electrical engineering, and computer science. OHV telematics also covers vehicular technologies, sensors, instrumentation design, and multimedia. Nevertheless, technologies that facilitate wireless data communication play a key… Continued...

The Embedded Experts Podcast: Where have all the OS vendors gone?



Rich Nass, Embedded Computing Brand Director *and* Brandon Lewis, Technology Editor

On this week's podcast with the Embedded Experts, Rich Nass and Brandon Lewis, we look at the semi-shakeup in the world of operating systems. There's been some acquisition and there's been some realignment. Security is in vogue and "real time" is, well, not necessarily real time. And then there's open source. Let us know if you agree with our opinions.

IoT Panel Discussion -Many Faces of IoT Connectivity & How to Deal With Them
Sponsored by: Anaren, Ayla Networks, MultiTech, PTC, and RTI
February 14, 2pm ET

Zinn: What's better, high volume or high margin?


Rich Nass, Embedded Computing Brand Director

Generally, semiconductor makers fall into one of two camps: high-volume, low-margin products, or low-volume, high-margin products. The proponents of each style would likely argue that their mentality is the right way to go. Ray Zinn, who has scores of experience on both sides of this equation, weighs in with which way he thinks is best. Continued...

Patching up Linux for real-time applications: Origins and impacts on IoT

Brandon Lewis, Technology Editor

A pioneer of embedded operating systems (OSs), Jim Ready is not only credited with the creation of one of the first commercially available real-time operating systems (RTOSs), the Virtual Real-Time Executive, under his guidance MontaVista helped pave the way for the use of Linux in embedded devices in the early 2000s. Now an independent consultant, Ready reflects on how early work in embedded Linux that prompted modern mobile OSs like Android also branched into more deeply embedded applications through the advent of capabilities such as the Realtime Preemption (RT-Preempt) patch, and how that evolution could ultimately impact the software hierarchy in the Internet of Things (IoT).

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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subject: "Consumer Electronics Get Haptic".