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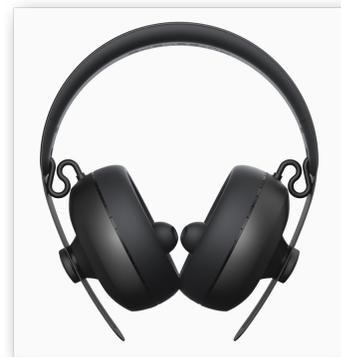
GUEST BLOG

The dawn of down-to-earth AI: Smart tech we'll see at CES 2018

YAIR SIEGEL, CEVA

For the past few years, devices and services powered by artificial intelligence have been the most popular and interesting items at tech shows around the globe. This will surely be true in 2018, but there is already a noticeable shift in the market.

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PODCAST

Embedded Insiders Podcast: Voice rec ? Who's listening?"

Embedded Insiders

Last episode, the Embedded Insiders explored how voice recognition will impact privacy and security in the smart home. This episode, Todd Mozer, CEO of audio and voice processing company Sensory, joins the pair. Mozer gives an insider's perspective of the DSP and machine learning technologies powering voice rec platforms, and what they mean for developers (and users) of virtual assistants.

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GUEST BLOG



Inflection point for RISC-V: The 7th RISC-V workshop in Silicon Valley

LARRY LAPIDES, IMPERAS SOFTWARE

The lead announcement for the workshop was from Western Digital: they are starting to transition all their processors to RISC-V. They anticipate that their first RISC-V-based devices will be delivered to end users in about two years.

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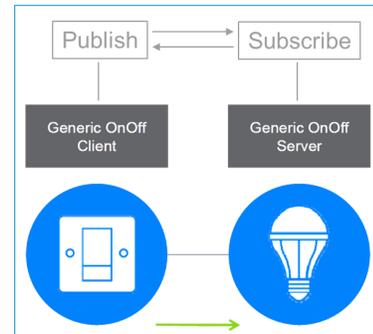
ARTICLE

Bluetooth mesh can result in a smarter industrial environment

MARCO VENERI, STMICROELECTRONICS

The long-awaited Bluetooth mesh networking technology is now available. Officially released by the Bluetooth Special Interest Group in June, it adds industrial grade, secure mesh networking to the list of existing Bluetooth networking topologies (point-to-point, star, and broadcasting).

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NEWS

Amazon FreeRTOS supported by 32-bit Microchip PIC MCUs

ECD STAFF

Microchip Technology has announced that its PIC32MZ EF series of microcontrollers now supports Amazon Web Services' Amazon FreeRTOS operating system.

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GUEST BLOG

LoRaWAN: Long-Range IoT with no strings attached

JEREMY COOK, ENGINEERING CONSULTANT

In engineering, it's common to deal with three competing factors: something can be produced well, cheaply, or fast. Networking has to make the same sort of tradeoffs, but parameters could be thought of as cost, transmission range, and transmission speed.

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Contec's C5? embedded computer leverages Intel? technology to bring flexibility to Industrial IoT

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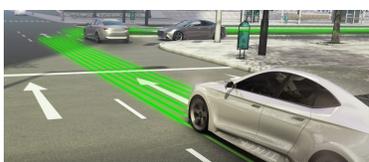
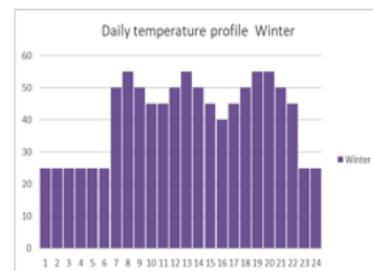
ARTICLE

Energy consumption in modern microcontroller systems, part three: The impact of operating temperature on energy consumption

HORST DIEWALD AND UWE MENGELKAMP, PROJOULE GMBH

An important factor in the selection, market positioning, and success of a product is the energy consumption of the entire system. Is one benchmark enough to select an MCU, an MCU family, or an entire MCU manufacturer? Are publicly available technical documents enough?

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GUEST BLOG

Where the software meets the road: Certifying the safety of self-driving

cars

S. TUCKER TAFT, ADACORE

The automotive industry is facing one of its biggest challenges in decades, namely developing wholly or partially self-driving vehicles that are safe for the mass market. This represents perhaps the most complex safety certification problem ever attempted.

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GUEST BLOG

Centimeter-level positioning will drive the next generation of location-based apps

DERMOT O'SHEA, TAOGLAS

Location-based technologies have made great strides, and in many cases, location of objects can now be pinpointed within a few feet. That's fine for locating lost car keys, and mobile marketing and basic navigation services. But what if "close" isn't "close enough"?

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BLOG

Machine learning starts with the algorithms

RICH NASS

The real key to accurate and useful machine learning consists of assembling the right combination of algorithms, compilers, and hardware architecture. If you don't have the right components in any of those three areas, machine learning won't work as it should.

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ARTICLE

A friendly introduction to XBee

DEREK HILDRETH, TECHNOLOGIC SYSTEMS

Digi XBee radios are handy for wireless communication in embedded systems, so let's take a look from a newbie perspective at how to quickly get two of them talking to each other.

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Power Panel: Gallium-Nitride vs. Silicon Carbide (GaN vs. SiC)

Sponsored by: EPCOS, Littelfuse, RECOM, Texas Instruments

January 16, 2018, 2:00 p.m. EST

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