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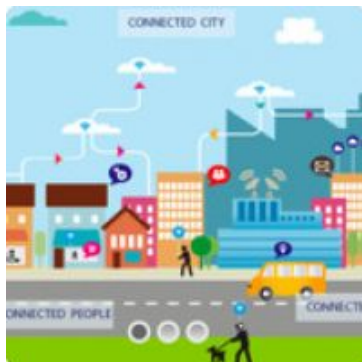
Embedded Computing Design announces 2017 Most Innovative Products



Embedded Computing Design

Winners include the Qorvo GP695 SoC, CEVA's CDNN2, and the DRS360 platform from Mentor, a Siemens Business.

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5G Public Private Partnership aims for lofty 5G goals



Curt Schwaderer

The 5G Public Private Partnership (5G-PPP) is a joint initiative between the European ICT industry and European Commission to rethink the infrastructure and create next-generation of communications networks and servi...

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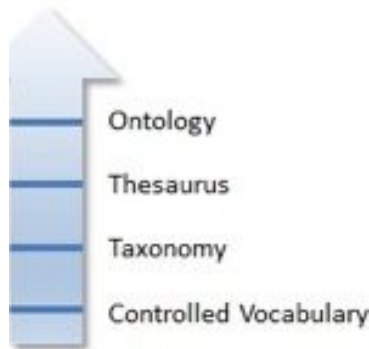
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Cross-industry semantic interoperability, part three: The role of a top-level ontology

 Victor Berrios, Zigbee Alliance,  Richard Halter, Global Retail

Technology Advisors,  Mark Harrison, Milecastle Media,  Scott

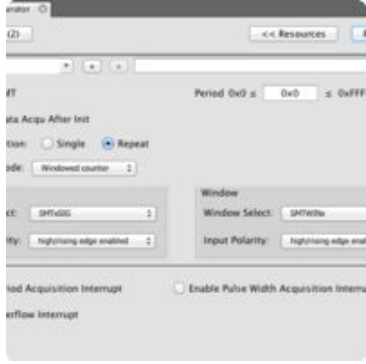
Hollenbeck, VeriSign,  Doug Migliori, ControlBEAM,  John Petze,

SkyFoundry,  Ron Schuldt, Data-Harmonizing, and  J. Clarke

Stevens, Shaw Communications

Part two identified consortia and their approaches to application layer interop. In part three, we discuss the role of a top-level ontology in solving the metadata challenge, and how elements of alternative approaches can improve scalability.

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DESIGN ARTICLES

Keeping complexity in check with embedded code generators



Lucio Di Jasio, Microchip Technologies, Inc.

The Raspberry Pi lineup was expanded in February 2017 with the Raspberry Pi Zero W[1], a \$10 personal computer with wireless connectivity. What a wonderful time this is for hobbyists, makers, tinkerers, hackers, and, yes, the few of us who are actually trying to do our job designing ?real? electronic products!

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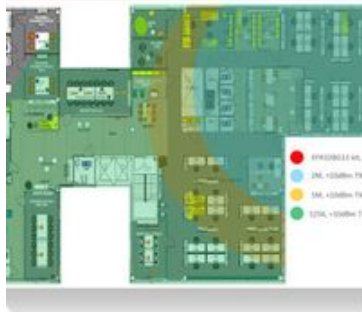
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Long awaited Bluetooth Mesh spec brings tradeoffs to IoT networking



Brandon Lewis, Technology Editor

On Tuesday the Bluetooth Special Interest Group (SIG) released the long-awaited Bluetooth Mesh specification, a technology rumored to disrupt smart lighting, smart home, smart retail, and building automation networks for some time. Version 1.0 of the Bluetooth Mesh specification is somewhat of an optional ?profile? based on the LE 1M PHY (physical layer) and [...]

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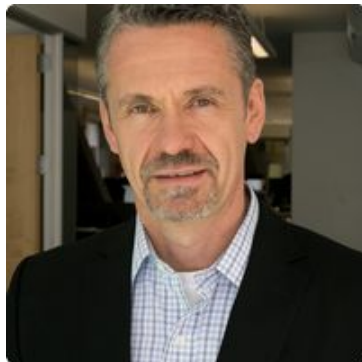
E-Sim cards are coming, whether the operators want them or not



Khurso Khan, Transparency Market Research

The global Embedded SIM (E-Sim) card market is rising steadily due to the several advantages these cards have over conventional SIM cards. For example, E-Sim cards let users change mobile network operators with a fe...

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Who's smarter: Hackers or defenders?



Rich Nass, Embedded Computing Brand Director

Hacking continues and breeches still occur, regardless of how much emphasis we put on security. Why is that? Is it simply that the hackers are smarter than the folks designing in the security? Does something really bad have to happen before we really make an effort? These are some of the questions I posed to Bill Diotte, CEO of IoT security leader Mocana, in this week?s installment of Five Minutes with?

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A new "touch" for the modern user interface



Microchip Technology Inc.

An innovative product needs a modern user interface to meet customer expectations. An outdated user interface puts revenue at risk. The CAP1xxx, MTCH10x, and AT42QTxxxx families of turnkey touch controllers provide robust and water-tolerant touch sensing. This technology is based on Microchip's decades of experience in touch. User interfaces with push buttons have several moving parts, which significantly decrease reliability, add complexity and increase tooling costs. Microchip's touch solutions allow you to create a high-impact?

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Taking the dev kit from prototype to solution



Cliff Ortmeyer, Newark

Development kits, aka dev kits, are driving innovation in a number of areas. From wireless and sensing, to the IoT and power management, dev kits are an essential part of the early stage design process, enabling engineers to test their designs quickly and cost-effectively. Their position as an essential part of a designer's toolkit is [...]

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DESIGN ARTICLES

The vehicle architecture of automated driving level 2/3



Rudolf Grave, Elektrobit

The requirements for automotive system design and software development are increasing due to the three most important future issues of the automotive industry: autonomous driving, software updates over the air, and drive system electrification.

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