Embedded COMPUTING DESIGN August E-Letter

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Embedded DAILY

RTOS debugging, part 1: Dealing with timing issues

Dr. Johan Kraft, Percepio AB

There is, no doubt, a learning curve when you begin using a real-time operating system (RTOS) in your development. You will work at a higher abstraction level, using more or less parallel tasks rather than just subr...

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Using the IIoT to yield better tomatoes

Rich Nass

Last year, as part of our IoT Roadshow, I interviewed Michael Murray, General Manager of Analog Devices? Industrial Sensing Group. The interview was titled Get into the application to really und...

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Annapolis Micro Systems, Inc.

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Here?s what?s next for always listening devices

Todd Mozer, Sensory

Ten years ago, I tried to explain to friends and family that my company Sensory was working on a solution that would allow IoT devices to always be ?on? and listening for a key wake up word without &ldqu...

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Eliminating complexities in embedded system development

Millie Rainer, Electrical Engineer

Using a model-driven approach and adopting agile development can reduce or eliminate complexities in the embedded system development process. ...

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WDL Systems

WDL Systems offers 4G-LTE Cat 1 models for the MultiConnect? Dragonfly? by MultiTech.

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Vodafone joins prpl Foundation with eye on advancing digital home and smart gateways

Curt Schwaderer

The prpl Foundation recently announced that Vodafone has joined their membership. The prpl Foundation is a non-profit foundation with the goal of driving innovation in a variety of Internet of Things (IoT) markets....

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Raspberry Pi Zero and Zero W: Linux computing in an even smaller package

Jeremy Cook, Engineering Consultant

When the original Raspberry Pi (Rpi) became available in 2012, it was amazing that a Linux computer could fit in the palm of your hand for the low, low price of $35. On the other hand, if you?re a student...

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Stop wasting energy: Use predictive maintenance

Jonathan Cooper, Augury

According to a U.S. Department of Energy study, maintenance techniques targeting energy efficiency can result in an annual savings of up to 20%. Why, then, did two-thirds of energy generated in the U.S. last year go...

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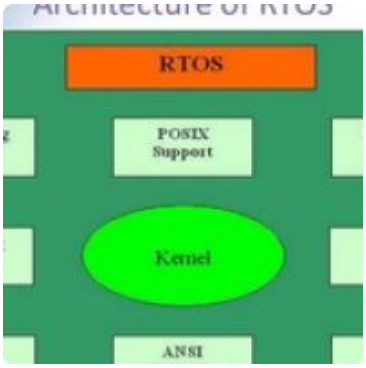

Understand why you got (or didn?t get) the RTOS business

Colin Walls, Mentor Graphics

Anyone working with embedded systems software is likely to be somewhat familiar with real time operating systems (RTOSs). I?m not going to look at any RTOS technicalities here, but I?d like to give you s...

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Wearables development in an IoT world

Curt Schwaderer

Microcontroller (MCU) innovations are quietly packing more intelligence in smaller form factors. These advancements are enabling operating systems (OSs) to be utilized in small form factor sensor devices, such as we...

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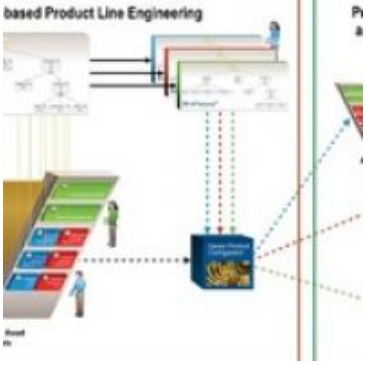

DESIGN ARTICLES

The birth of 30 million digital twins: Transforming the engineering lifecycle and manufacturing feedback loops

Brandon Lewis, Technology Editor

The ?digital twin? was first introduced to mainstream technology by General Electric back in 2015, and has been assimilating into Industrial Internet of Things (IoT) hierarchies ever since. Digital twin...

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The IIoT is the harbinger of real change

Saar Yoskovitz, Augury

?We wanted flying cars, instead we got 140 characters.? Peter Thiel might have been talking about the Internet of Things (IoT) in his quote about pipe-dream technology. Despite all the hope, hype, and fu...

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3D-printed solar panels are the key to green energy in developing countries

Erin Vaughan, Modernize Solar

Now that public interest in solar has skyrocketed, engineers have been rushing to find more flexible and durable alternatives to older solar panels. At the same time, the makeup of solar technology puts it in a uniq...

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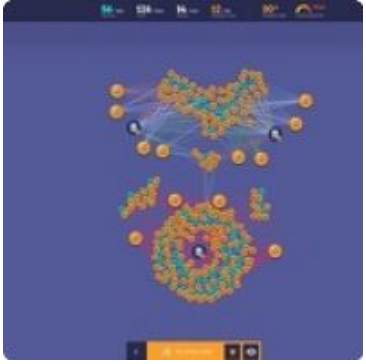

DESIGN ARTICLES

Deception networks: Reducing alert fatigue and increasing security through an alternate reality

Brandon Lewis, Technology Editor

The most concerning revelation to come out of the security industry over the past couple of years isn?t the Mirai botnet, nor the hacks of Verizon, Yahoo! (before the acquisition), or the Democratic National C...

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Embedded Linux: Features outweigh footprint

Brandon Lewis, Technology Editor

For original equipment manufacturers (OEMs) and their customers, the features and flexibility of Linux distributions like Yocto, Android, and Ubuntu Core outweigh the limitations of thei...

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EEPROM reliability meets SRAM performance

Microchip Technology Inc.

EERAM is a non-volatile SRAM with a shadow EEPROM backup. Data is backed up to the EEPROM automatically on power down in the presence of a small external capacitor. These devices combine the reliability of an EEPROM with the performance of an SRAM. Microchip?s EERAM products offer unlimited, instant writes to memory and reliable data storage at power loss. This low-cost NVSRAM is available in tiny 8-pin packages and does not need a battery. Low-cost?

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Embedded DAILY

E-cast

SYNOPSIS: A one-hour, live, moderated problem/solution technical webcast.

Using default time zone: America/New_York

Cyber Security: It Starts with the Embedded System

Sponsored by: LDRA, Rogue Wave Software, Wind River, WinSystems

September 21st
2 pm EDT

Registration: OPEN

For additional *E-casts*, check out the Broadcast Archive.

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