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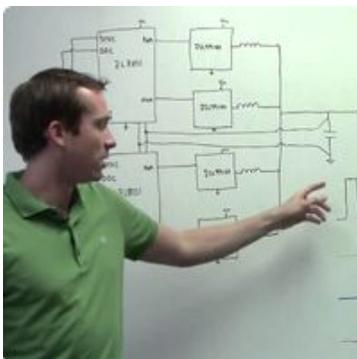
Travel back to the HP garage, where it all began



Rich Nass, Embedded Computing Brand Director

They don't qualify as IoT products, but that's only because they were developed WAY before the Internet came to be. Take a trip back in time to the original Hewlett-Packard garage (sort of) and see some of the first products that the two pioneers, Bill Hewlett and Dave Packard, built (yes, the actual products). They're on display at Keysight Technologies, which is a company that's a significant part of the HP family tree.

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There's a big upside to digital power



Rich Nass, Embedded Computing Brand Director

Digital power is an oxymoron to some people, but it really shouldn't be. While many (old-school?) designers think that power is analogous to analog, that's not necessarily the case anymore. In fact, digital power has many advantages over traditional analog power. It can produce higher system efficiency. For example, power stages can be varied intelligently [...]

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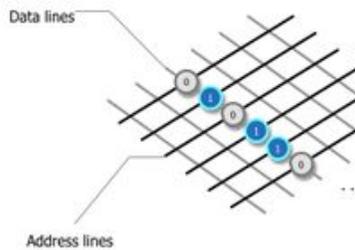
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Embedded memory systems 101



Ken Whitaker, VP, Engineering, Datalight

Memory subsystems needn't require a significant learning curve.

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Panel PCs in POS environments – commercial projects now industrial



Rory Dear, European Editor/Technical Contributor

To this day I find myself regularly debating the improper crowbarring of commercial IT solutions into industrial applications, where a natural lack of longevity and inadequate environmental specifications are often ignored as the lure of low cost blinds the project manager. Recently, I've observed the polar opposite: solutions with true industrial credentials are finding a [...]

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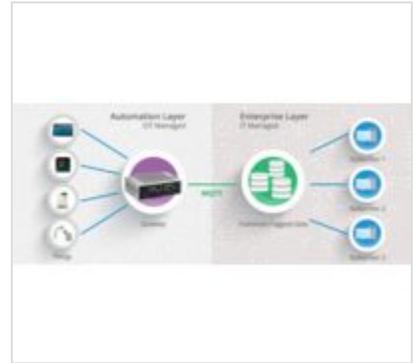
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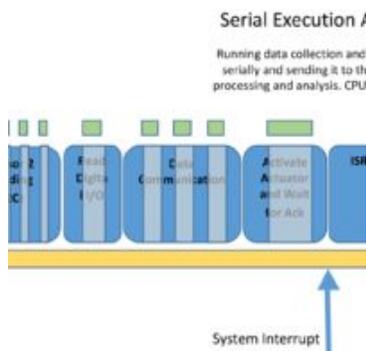


Eheap Part 3: An embedded system heap with self-healing features

 Ralph Moore, Micro Digital

A self-healing embedded systems heap can protect data while providing adaptability, safety, and high performance.

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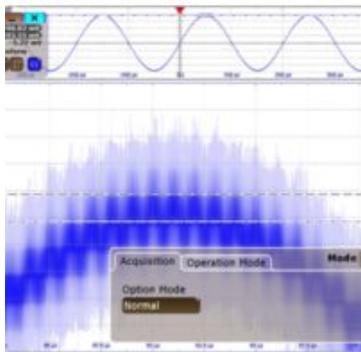


Optimize IoT performance by optimizing the IoT edge

 Jacob Harel Zeidman Technologies

By performing operations at the edge rather than the server, overall system performance can be greatly enhanced.

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WHITE PAPER

White Paper: High-Resolution Measurements with R&S Oscilloscopes



Staff, Rohde & Schwarz GmbH

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Pi versus pro? The right IoT diet can separate product from prototype



Alan Brown, Technologic Systems

There are a lot of low-cost hardware options available to Internet of Things (IoT) developers, but if you're serious about going from prototype to product, there may be more considerations than meet the eye. The availability of ultra-low-cost hardware boards and open-source software today provides easy, educational access to computer programming for those who [...]

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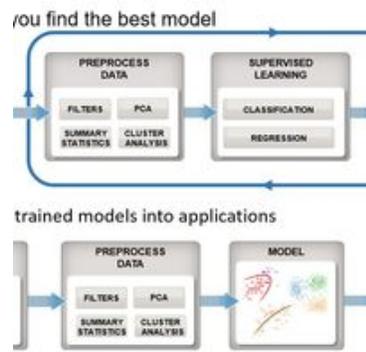
Industrial Internet through the wire with EtherCAT Technology Group



Brandon Lewis, Technology Editor

With all the fuss around wireless connectivity for the Internet of Things (IoT), it's sometimes easy to forget that the backbone of industrial systems is built on wired fieldbus technologies. While some of those legacy fieldbus technologies are starting to give way, EtherCAT, the "Ethernet Fieldbus" is not only continuing to succeed in industrial [...]

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Analytics-driven embedded systems, part 3 – Integrating real-time analytics

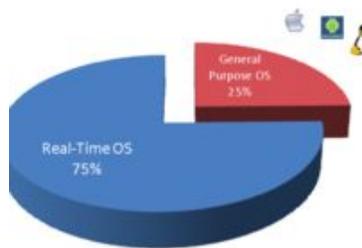


Paul Pilotte, MathWorks

The first two articles in this series introduced analytics-driven embedded systems and described data access, data pre-processing, and types of predictive algorithms for these systems (Part 1 can be found here and Part 2 can be found here). In this final article, let's look at how to implement the analytics and integrate them in production and embedded systems.

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Embedded Market Forecast 2015



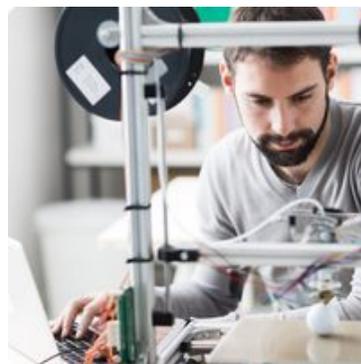
Picking a portable Internet of Things operating system



Brandon Lewis, Technology Editor

Hardware/software architectures of the cloud and datacenter are well defined, so much so that “Wintel” and “Lintel” (Windows/Intel and Linux/Intel) became common jargon in networking circles in the middle part of the 2000s. This makes you wonder if an IoTopia can exist where common operating systems run as seamlessly on sensor modules as network [...]

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3D printing explained, and how it will rock the world



John Hornick, 3D Printing Will Rock the World

3D printing is not just one process. “3D printing” and “additive manufacturing” are umbrella terms for many different technologies and processes. Each type of 3D printer builds parts or products layer upon layer, usually from the bottom up, sometimes from the top down. 3D printers have been around for about 30 years. Until recently, they [...]

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