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Floored: NXP FTF 2016



Brandon Lewis, Technology Editor

Slide show — This was my first time attending FTF, which incidentally was also the first FTF since the NXP/Freescale merger. To be honest, it was one of the most intriguing shows I've been to in a while, as the content, exhibitors, and attendees were all focused solely on the nuts and bolts of technology [...]

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Zinn on “free college” in the U.S.



Rich Nass, Embedded Computing Brand Director

One of the current presidential candidates is touting that we should be offering free college tuition to our young people. While in theory that seems like a great idea, when you start to dig into it a little, it's a lot more complicated than it seems. I asked Ray Zinn, Micrel's Founder and former CEO in our weekly spot if he thought this was a viable plan. Interestingly, he did. In fact, he even had a way to fund it. Let me know if you think it's actually possible.

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hardening for securing IoT devices

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A village of IoT startups at Computex 2016



Rory Dear, European Editor/Technical Contributor

The Internet of Things (IoT) not only promises new business models and revenue streams for those long embedded in our industry (pun intended), but also heralds unique opportunities for start-ups. Computex 2016 sees the launch of InnoVEX, a “start-up village” as providing a platform dedicated to new innovative companies finding their way in the now [...]

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Developers are choosing Java for their intelligent IoT gateways



Dr. Jerry Krasner, Ph.D., MBA Embedded Market Forecasters

Recent survey data suggests that Java is gaining strength for development of embedded IoT applications. This data can be viewed by looking at the IoT industry and survey responses from the perspective of: The industry at large Java users working or not working on IoT applications/devices C++ users working or not working on IoT applications/devices [...]

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Top 10 embedded inventions of the last 10 years



Rich Nass, Embedded Computing Brand Director

In a recent interview with Ray Zinn, I asked him what he thought was the greatest invention of his lifetime. He came up with a bunch of good answers, but I quickly realized that for our purposes, we should be discussing the discoveries/inventions/movements/etc. in the embedded world. To narrow it down even further, I'm going [...]

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White Paper: Agile Development -- Why requirements matter



Staff, IBM

The clear benefits of agile development—better collaboration, incremental delivery, early error detection and the elimination of unnecessary work—have made it the default approach for many teams. Agile methods are also being adopted by systems engineering teams to deliver the same benefits. So how does requirements management fit in an agile world? This paper argues that requirements management can bring significant value to agile development in regulated IT and complex product development projects, and sets out the characteristics of an effective requirements management approach in an agile environment.

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SISTER PUBLICATION ARTICLE

IoT Roadshow – Phoenix: Changing the cost, form factor, and power paradigm for IoT DAQ with battery-less wireless sensors



Brandon Lewis, Technology Editor

Regardless of where you sit, the Internet of Things (IoT) starts and ends at the edge. There, sensor processing systems are responsible for gathering data about particular systems or the surrounding environment, transmitting that data over a wired or wireless connection for further data analysis in backend IT systems, and, often, leveraging that information in [...]

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GPU compute is making an impact in embedded applications



Paul Blinzer, Fellow, AMD, Chairperson, System Architecture

Workgroup of the HSA Foundation

A graphics processing unit (GPU) is better equipped for forming images at higher resolution and faster frame rate as compared to a central processing unit (CPU) because the GPU features hundreds of compute units that can process thousands of data sets in parallel. The parallel data structure and high thread count make GPUs inherently more [...]

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An education at the intersection of IoT and embedded



Rich Nass, Embedded Computing Brand Director *and*



Brandon Lewis, Technology Editor

Embedded TechCon moves to Austin this year on June 7th and 8th, and, just like last year, the program consists of 20 hands-on classes that are designed to be immediately actionable. In other words, lessons learned during the two days of Embedded TechCon – and in some cases actual hardware and software – can be taken back to the lab [...]

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Fast FOTA update tutorial for the Internet of Things



Brandon Lewis, Technology Editor

Learn how to leverage Node.js, Python, and the MediaTek Cloud Sandbox to push firmware updates over-the-air instantly to a LinkIt Smart 7688 Duo hardware development kit (HDK). Goal: The following describes how to use SSH and the MediaTek Cloud Sandbox to deploy firmware over-the-air (FOTA) updates to a MediaTek LinkIt Smart 7688 Duo hardware development [...]

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Eight ways to avoid bad end-user software licensing



Ken Whitaker, VP, Engineering, Datalight

As the traditional software application market migrates from the enterprise to mobile and embedded devices, end-user license management has become a must-have design issue. The emergence of the Internet of Things (IoT) has energized the embedded market and to some, it may appear to be an untethered maze of devices, each doing its own thing. [...]

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The IoT needs fog computing



Angelo Corsaro, Chief Technology Officer, PrismTech

As the Internet of Things (IoT) continues its rapid pace of growth, there's been no shortage of inflated expectations. Platforms promising to ease the development, deployment, and management of IoT systems are now counted in the hundreds. You might be led to believe that all you have to do is pick a platform you like [...]

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The anatomy of an intelligent IoT gateway



David Chang, Director, Dell Edge Gateways

After the early euphoria, the marketplace is coming to terms with the real value that the Internet of Things (IoT) bandwagon offers. For instance, people now ask very specific questions, like whether the IoT is different from the legacy monitoring and control systems, commonly employed in the industrial automation and manufacturing environments. A second issue [...]

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