Embedded COMPUTING DESIGN
June E-Letter
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DESIGN ARTICLES

2016 Top Embedded Innovator: Jeff Bader, Vice President, Embedded Business Unit, Micron Technology

Brandon Lewis, Technology Editor

While much has been made of the Big Data and cloud storage aspects of the Internet of Things (IoT), much less attention has been paid to the growing memory requirements of devices that exist at the edge. Here, as connectivity, security, and demands for localized intelligence increase, so too do the expectations for low cost, small footprint, and minimal power from embedded storage solutions.

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Open source opens many licensing issues for 3D printing

Maya M. Eckstein, JD, Hunton & Williams LLP *and* Eric J. Hanson, JD, Hunton & Williams LLP

The use of additive manufacturing – commonly referred to as 3D printing – by manufacturing companies, retailers, and others is rising exponentially. PwC's April 2016 report, "3D Printing Comes of Age in US Industrial Manufacturing[1]" confirms that 71 percent of manufacturers already have adopted 3D printing and that 52 percent expect to use it for high-volume production in the next 3-5 years.

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2016 Top Embedded Innovator: Kent Meyer, Emcraft Systems

Brandon Lewis, Technology Editor

There is a disconnect between the education K-12 students are receiving and today's high-tech economies, leaving younger generations in a precarious position as technology-driven automation promises to transform the workplace (and available jobs) of the 20th and early 21st centuries.

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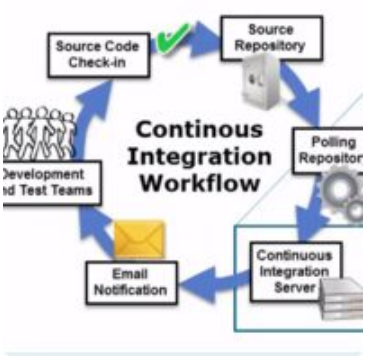

First Agile, now Continuous Integration. Where does testing fit?

Walter Capitani, Rogue Wave Software

In the early days of building cars all pieces were "integrated" at the same time, so it wasn't likely that they'd get to the end of the process and find out the steering wheel wouldn't fit. On the down side, if they had an idea for a new transmission they'd have to start over and [...]

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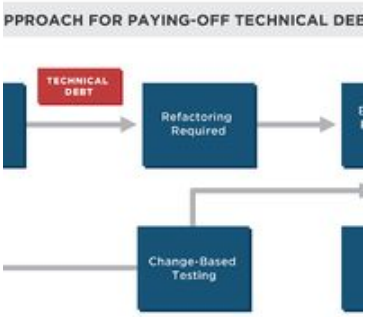

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Paying off technical debt in safety-critical automotive software

John Paliotta, Vector Software

Vehicles have evolved from mechanical devices into complex integrated technology platforms with embedded software powering all major systems, including: engine control, powertrain, braking, driver assistance, and infotainment. Now, studies predict that by 2017, four out of five new cars will have an Internet connection[1]. This “always-on” connectivity will result in new challenges as the line [...]

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2016 Top Embedded Innovator: Tyson Tuttle, CEO, Silicon Labs

Brandon Lewis, Technology Editor

Silicon Labs began its evolution towards the Internet of Things (IoT) in 2010, at which time Tyson Tuttle, who started with the company as a design engineer, was CTO. Since taking over as CEO in 2012, Tuttle has grown that early IoT investment into half of Silicon Labs’ nearly $650 million in annual revenue, and has his sights set on increasing it by driving simplicity (ironically, through software) deeper into the IoT marketplace.

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The beginnings of innovation in the “new” embedded

Rory Dear, European Editor/Technical Contributor

I’m often guilty of tunnel vision when it comes to embedded, as the majority of my career has been spent where embedded and industrial were synonymous, and often interchangeable. However, events like Computex 2016 always remind me just how wide the scope of embedded is today. In fact, I now genuinely believe that our industry [...]

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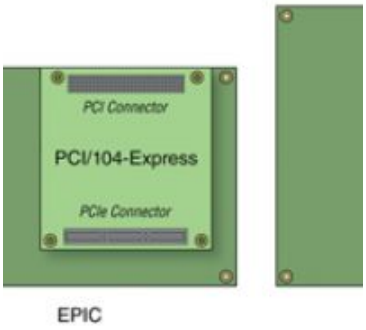

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PC/104 maintains its presence in embedded systems

Rory Dear, European Editor/Technical Contributor

The modular PC/104 architecture maintains its relevance in a competitive field.

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Autonomous driving will change society

Rich Nass, Embedded Computing Brand Director

We're all aware of the advances taking place in autonomous driving. We've seen the brief reports from people like Google and others. But frankly, there's way more taking place in this arena than I was aware. But more importantly, I had no idea how much it would change society, or at least according to a very good source, Stan Schneider, CEO of RTI. I think you'll be really intrigued by this one.

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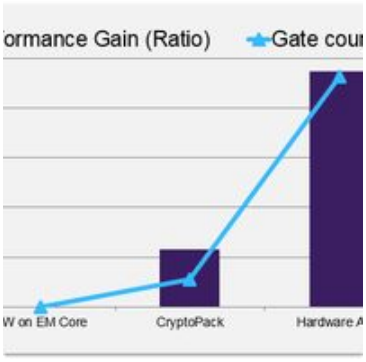

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Securing processors for IoT edge nodes

Angela Raucher, Product Line Manager for ARC EM Processors, Synopsys

As more IoT devices are deployed, security is growing in importance. Security can be a scary topic on many levels. For example, news of someone hacking a baby monitor is not only frightening for the consumer, but also for companies making these devices, as the resulting exposure and liability can hurt their business. IoT security [...]

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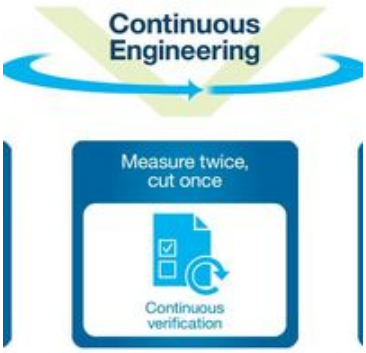

WHITE PAPER

White Paper: Continuous validation and verification

Staff, IBM

Engineering a product is a risky and complicated process and the cost of building it wrong has never been higher. The number of new features users and customers expect with each new release continues to increase at a frantic pace, along with expectations for improved ease of use, higher reliability and greater safety features. With much more embedded software in these products, design errors can go undetected until after the products have been shipped and sold. These problems are largely a result of the complexity associated with product design. To address today's manufacturing challenges, companies are adopting the practice of continuous engineering.

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