FEATURE
Extending Trust to Embedded Mobile Systems
TERRY OTSUBO, AMERICAN MEGATRENDS

With more than 95% market share in smart phone processors, Arm, now a part of Japan's SoftBank Group, has provided compelling reasons for mobile system designers to choose its architecture.

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FEATURE
Navigating the Component Shortage
GRAHAM SCOTT, JABIL

The only abundance seen lately in the electronic components market is the quantity of calendar pages marking how long the supply shortage has lasted.

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The Return to Analog
GENE FRANTZ, OCTAVO SYSTEMS

The concept of processing interesting signals is not new. It has been around as long as we, as humans, have recognized we could manipulate the world around us to make life easier.

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FEATURE
Device: Test Thyself
COLIN WALLS, MENTOR GRAPHICS, EMBEDDED DIVISION

Stuff breaks. Things go wrong. The less polite epithet is: **** happens. Whatever word you use, it?s a fact that we live in an imperfect world. In an embedded system, there are many
opportunities for failure.

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FEATURE

Mentor’s Emulation Vision ? New Solutions for New Challenges
ERIC SELOSSE, MENTOR, A SIEMENS BUSINESS

The exciting thing about participating in an industry over the decades is watching change happen right before your eyes. Back when I was building and marketing computer systems, it was a different world.

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FEATURE

IoT Helps Beekeepers Raise More Bees
LANCE LOOPER, SILICON LABORATORIES

Bee populations have been on the decline for several decades for many reasons. As pollinators of numerous crops, honeybees average more than 33 percent population loss per year.

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FEATURE

Momentum is building for LoRaWAN
The open LoRaWAN standard for IoT low-power wide area networks (LPWANs) enables smart sensors, devices, and other objects to connect wirelessly via gateways that relay messages to a central network server.

**FEATURE**

**IQRF - wireless technology for IoT and how to use it**

LEI ZHANG, IEXEC BLOCKCHAIN TECH

IQRF technology is used for wireless data transfer. The transmission is capable of overcoming large distances (up to 500 m outdoors, tens of meters indoors).

**PODCAST**

**Five minutes with ... John Wall, QNX**

RICH NASS

When it comes to autonomous vehicles, there are followers and there are leaders. QNX, a subsidiary of Blackberry, believes it falls into the latter class. To understand why, but more importantly to get the lay of the autonomous vehicle landscape, I spoke to QNX?s Senior Vice President John Wall in this week?s Five Minutes with discussion.

**NEWS**

**Wind River Develops Safety Platform for Autonomous Vehicles with Hyundai**

LAURA DOLAN, TECHNOLOGY EDITOR

Wind River announced collaboration plans with Hyundai Autron to develop a software framework for safe, automated and autonomous driving.
Entner Electronics has released the UC-200 embedded vision camera based on the 30 fps Sony 13 megapixel EXMOR sensor and F2.2 lens.

**1080p/60 embedded vision camera integrates Sony 13 MP EXMOR sensor and F2.2 lens**

LAURA DOLAN, TECHNOLOGY EDITOR

A modern vehicle has over 100 million lines of code, more software than is found in a Space Shuttle or the Large Hadron Collider. To make driving decisions, autonomous vehicles use sophisticated software running on the most powerful CPUs ever seen in the automotive industry. Since these processors are pushing the boundaries of hardware performance, reliability has become a concern.

**Automotive Functional Safety: No Hiding Place**

BLACKBERRY | QNX

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**Cryptography-enabled microcontroller with DICE architecture simplifies**
development of secure connected nodes

MICROCHIP TECHNOLOGY, INC.

With the accelerated growth of the Internet of Things (IoT) enabling the deployment of Internet connectivity into virtually every industrial segment, security threats are escalating in quantity and scale. The impact of these threats on attacked organizations or companies can be huge.

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AVNET

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