IoT FEATURE

The Era of Shared Touch is Ending
TODD MOZER, CEO, SENSORY

As our machines got more intricate and complex, touch made a lot of sense for mechanical devices, and interestingly enough even in the rise of electronics, using buttons, knobs, and various finger-based controls has been pervasive.

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EMBEDDED HARDWARE NEWS

New Wio Terminal From Seeed Studio
TIERA OLIVER, EDITORIAL INTERN, EMBEDDED COMPUTING DESIGN

Seeed Studio has released the Wio Terminal. Compatible with Arduino and MicroPython, Wio Terminal is an ATSAMD51-based microcontroller with wireless connectivity supported by Realtek RTL8720DN. According to the company, its CPU speed runs at 120MHz (Boost up to 200MHz).

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AUTOMOTIVE POWER ELECTRONICS FEATURES

Re-Engineering the Power Inductor for Automotive "Electric Everything"
KEMET ELECTRONICS CORPORATION

The trend in automotive towards electrification of every aspect of today’s vehicles places extreme demands on DC/DC converters to provide stable power over a wide temperature range, and to deliver high reliability and...
energy efficiency, within tight space constraints - such as the electronic control unit (ECU). A new generation of power inductors delivers superior characteristics to meet these demands.

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EMBEDDED EXECUTIVES PODCAST

\textbf{Thomas Fowler, VP, Central Engineering, Silicon Labs}

RICH NASS, EVP, OPENSYSTEMS MEDIA

Different parts of the country and the world have been hit in different ways by the COVID-19 pandemic. In our Special Edition of the Embedded Executive podcasts, we are trying to understand how different groups are dealing with the issue, strictly from a work/engineering perspective. In this interview, I spoke with Thomas Fowler, Vice President of Central Engineering at Silicon Labs. Thomas is based in Austin, TX.

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ARTIFICIAL INTELLIGENCE AND EDGE COMPUTING NEWS

\textbf{AAEON Releases AI, Edge Computing Solutions}

PERRY COHEN, ASSOCIATE EDITOR, EMBEDDED COMPUTING DESIGN

AAEON announced it is releasing four new rugged embedded platforms that will be powered by the NVIDIA Jetson platform.

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MEDICAL APPLICATIONS NEWS

SECO, IBD Partner to Create New Ventilators, Combat COVID-19

PERRY COHEN, ASSOCIATE EDITOR, EMBEDDED COMPUTING DESIGN

SECO announced a partnership with IBD, an Italian company developing products for the biomedical market, to develop Respira. Respira is a non-invasive pulmonary ventilator created to help combat the COVID-19 pandemic.

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EMBEDDED EXECUTIVES PODCAST

Gurjot Singh, CEO, Lynx Software

RICH NASS, EVP, OPENSYSTEMS MEDIA

Open source is pretty close to ?the norm? today. Aside from the military and a few other applications, developers don?t think twice about pulling down some open-source code and inserting it into their design. Is that a good thing? That?s the question I asked of Gurjot Singh, CEO of Lynx Software in this week?s Embedded Executive podcast.

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EMBEDDED EXECUTIVES PODCAST

Patrick Wadden, Global VP, Automotive Business Development, Vicor

RICH NASS, EVP, OPENSYSTEMS MEDIA

Decentralized power is a phenomenon that?s starting to hit the automotive sector. Is it better to have lower power levels in more places in the car, as opposed to one centralized place? Hmm, I?m not sure, as I think I can make an argument for either solution. Rather than attempt a guess, I went right to an expert for this week?s Embedded Executives podcast. That expert is Patrick Wadden, Vicor?s Global Vice President of Automotive Business Development. He explains which is the better approach and why.

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DEVELOPMENT TOOLS AND OPERATING SYSTEMS FEATURE

Innovations Created By the COVID-19 Pandemic

GEORGE HILLARD, SALES AND MARKETING MANAGER, WINSYSTEMS

As I?m writing this, we are still stuck in the middle of the COVID-19 crisis in the U.S. and frankly, depending on which ?expert? you believe, we could be back to normal
in anywhere from a month or two to many, many months. Here in Texas, where WINSYSTEMS is headquartered, they just announced that schools are shutdown at least until the end of the school year and graduations are being rescheduled for June or July. But honestly, no one knows for sure when things will return to some semblance of business as usual.

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How to do Machine Learning on Arm Cortex-M Microcontrollers

ARM

Machine learning (ML) algorithms are moving processing to the IoT device due to challenges with latency, power consumption, cost, network, bandwidth, reliability, security, and more.

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Think Local: How to Migrate Intelligence from the Cloud to Embedded Devices at the Edge

ARM

For the rapidly expanding Internet of Things, "Think Local, Act Global" is a guiding principle. Traditionally, decision making has been concentrated in the cloud, at the center, moving all the data and intelligence inwards. This places huge strain on the technical and commercial model of the network.

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Architect Your Edge Cloud Solution: Kubernetes Containerized or Windows Server Management

ADVANTECH

Today, many varieties of intelligent applications are implemented on cloud platforms which help enterprises improve productivity and flexibility. Many Small and Mid-Size Enterprises (SME) have chosen to use public clouds out of cost considerations.

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AI for Edge Computing

VECOW

Artificial Intelligence (AI) is the critical technology that will enable next-generation IoT systems across every
application and industry. Having to program these systems manually limits their flexibility as well as slows the rate at which innovation can be deployed.

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**SPONSORED WHITE PAPER**

**Wireless Technology Considerations, A Shopper’s Guide**

NATIONAL INSTRUMENTS

Read this white paper to learn about some of the new technology driving wireless capability, device options you will see on the market, and a take on what’s important in a datasheet.

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