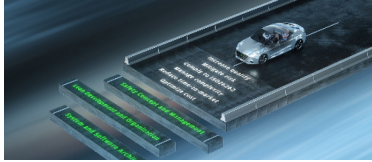


AUGUST 2018



From logistics regression to self-driving cars: Chances and challenges for machine learning in highly automated driving

SORIN MIHAI GRIGORESCU, MARKUS GLAAB, AND ?ANDR? ROSSBACH, ELEKTROBIT AUTOMOTIVE

Machine learning has been one of the hottest topics in research and industry over the last couple of years. Renewed attention has resulted from the latest advancements in computational performance and algorithms compared to the advent of machine learning decades ago.

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Why closed-loop sensing provides the best white color-tuning performance in LED lights at the lowest cost

TOM GRIFFITHS, AMS AG

The lighting industry has recognized the value of color tuning to support added-value applications such as human-centric lighting. There is a stark difference between the three models of color tuning control in use today.

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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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Printed circuit board 4.0

OLAF WILMSMEIER, HARTING TECHNOLOGY GROUP

An order via a control board is placed with one of the MES service providers in Germany. After being entered, the order is scheduled, production commences, and all relevant production and quality data are stored in the backend system (a database).

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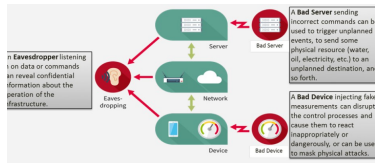
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Power Your Bus With Supercapacitors

JASON LEE, EATON CORP.

As the world works toward reducing carbon emissions and other air pollutants, and also saving money on fuel consumption, public transportation is increasingly being electrified.

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Securing Industrial IoT sensors, part 1: The TPM for network security

JOSEF KOHN, INFINEON

At a Sensors Expo 2018 workshop in San Jose, CA, with Embedded Computing Design, Trusted Computing Group (TCG) work group members presented information about TCG's TPM for network security, the DICE lightweight root of trust and the Trusted Software Stack.

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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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u-blox's UBX-P3 will accelerate V2X active traffic safety

LAURA DOLAN, TECHNOLOGY EDITOR

u-blox announced its UBX-P3 chip for vehicle-to-everything (V2X) wireless communication based on the

DSRC/802.11p standard. The chip builds on the success of the u-blox THEO?P1 and VERA-P1 V2X modules.

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Microchip?s European MASTERS Conference 2018

Taking place in Germany, Berlin on 11-13 th September 2018, Microchip?s European MASTERS conference is inviting innovative design engineers to take advantage of this technical seminar and benefit from 3 days of learning about the new technologies that can realise their designs for future products.



KDPOF 802.3bv GbE transceiver improves EMC in automotive networking

BRANDON LEWIS, EDITOR-IN-CHIEF

KDPOF has announced the availability of its first automotive Gigabit Ethernet plastic optical fiber (GEPOF) transceiver, the KD1053. The KD1053 provides a flexible digital host interface, low latency, jitter, and linking time in an IEEE 802.3bv-compliant connectivity solution.

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

LAURA DOLAN, TECHNOLOGY EDITOR

Entner Electronics has released the UC-200 embedded vision camera based on the 30 fps Sony 13 megapixel EXMOR sensor and F2.2 lens. Proprietary camera read-out electronics enable high speed image capture, high sensitivity, and low noise in a compact package for applications such as digital security and surveillance (DSS), drones, video communications systems, and visualizers.

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AIVION announces next generation HDMI Interface Board with up to 1080p60 resolution and optimized form factor for the Tamron block camera MP

AIVION

AIVION, leading provider of video interface solutions, announced the next generation of the

HDMI interfaces for the Tamron Ultra-Compact Camera Modules MP1010M-VC and MP1110M-VC.

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Power supply design: To build or to buy?

OEMSECRETS

Followers of the OEMSecrets article series know that repairing TMI usually starts out with power supply trouble. Due to that, buying an off-the-shelf module can be attractive.

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The Rise of the Robot Overlords: Clarifying the Industrial IoT Part 4: Why a Databus is so Unique

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