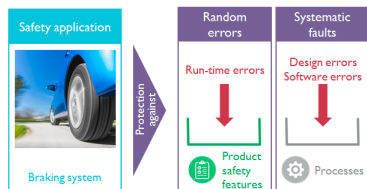




## DECEMBER 2018

### FEATURE



## ISO 26262 Compliance: How do we get There?

MAJEED AHMAD, CONTRIBUTING EDITOR

The autonomous cars are coming sooner than later, and that calls for a thorough understanding of functional safety and the complexities of compliance to standards such as ISO 26262.

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### NEWS

## STMicroelectronics? New Chorus MCU Increases Security and Accelerates In-Vehicle Networking

LAURA DOLAN, TECHNOLOGY EDITOR

STMicroelectronics? new Chorus microcontroller, SPC58NH92x, is creating safer, more flexible, and future-proof connected cars. The new flagship SPC58 H Line joins the Chorus Series of automotive MCUs and can operate multiple applications simultaneously, granting more flexible and cost-effective vehicle-electronics architectures.

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### BLOG

[Mirroring Real-World Engineering Projects for Student](#)

# Competitions: Benefits of a Four-Year Model

SWAROOPH SESHADRI, MATHWORKS

The EcoCAR Mobility Challenge is the latest U.S. Department of Energy Advanced Vehicle Technology Competition (AVTC) series focused on accelerating the development of emerging automotive technologies related to hybrid and electric vehicles.

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## NEWS



### Volkswagen, Mobileye and Champion Motors to Operate First Autonomous EV Ride-Hailing Service

LAURA DOLAN, TECHNOLOGY EDITOR

The Volkswagen Group, Mobileye, and Champion Motors will team up to implement Israel's first self-driving ride hailing service, or Mobility-as-a-Service (MaaS), starting in 2019.

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## BLOG



### The demise of the reset button

COLIN WALLS, MENTOR GRAPHICS

Stuff goes wrong - it is a fact of life. Embedded devices are typically very reliable, but not immune to failure. A common failure mode is a lock-up - the device freezes and will not respond to any user interaction.

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## NEWS

### Renesas Electronics? Innovative Safety Analysis Tool Simplifies Automotive ISO 26262 Compliance

LAURA DOLAN, TECHNOLOGY EDITOR

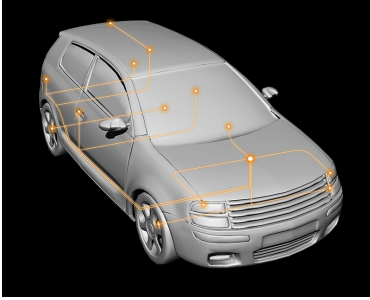
Renesas Electronics Corporation has released its GUI CAR (Customizable Analysis Report) Tool. It is a new FMEDA (failure mode effects and diagnostics analysis) tool that meets the ISO 26262 standard.

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## FEATURE

### CAN remains an important bus technology in control systems of the future, as well as today

KENT LENNARTSSON, KVASER AB



Though the systems that Controller Area Network (CAN) is integrated into make headline news, CAN rarely gets a mention these days. Whether you are at CES, Embedded World or the Autonomous Vehicle Technology Expo, you'll see self-driving vehicles and concept cars with CAN embedded so deeply that it's a challenge to find out if it is indeed there? it may well even be shielded from the OEM.

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## NEWS

### MagnaChip's New Automotive-Grade 0.18 micron BCD Process Technology Hits the Market

LAURA DOLAN, TECHNOLOGY EDITOR

MagnaChip Semiconductor Corporation will now offer Foundry customers a 0.18 micron BCD (Bipolar-CMOS-DMOS) 200V high-voltage process that uses SOI (Silicon On Insulator) substrates with solid high-voltage isolation and extends MagnaChip's existing BCD processes from 100V to 200V.

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## BLOG



### Automotive Echo for voice-control infotainment

MAJEED AHMAD, CONTRIBUTING EDITOR

What's the design magic behind digital assistants like Amazon's Echo? Advanced artificial intelligence (AI) algorithms that eliminate background noise and isolate the primary voice for a better listening experience.

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## NEWS



### Littelfuse, Inc. Launches AEC-Q101 Qualified TVS Diodes

LAURA DOLAN, TECHNOLOGY EDITOR

Littelfuse, Inc. has expanded its TPSMB Series of Automotive Transient Voltage Suppression (TVS) Diodes. The AEC-Q101 qualified TVS Diodes are designed to protect sensitive automotive circuitry from a higher level of voltage transients caused by other transient voltage events such as lightning.

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