

8

interview

Dr. Bernd Rothe talks about the futuristic Solar Impulse aircraft, which took off from Abu Dhabi in early March on a unique mission: The "Si2" set out to become the first manned aircraft to circumnavigate the globe without burning a single drop of kerosene – powered only by the sun.



On time - for sure

When a computer takes forever to load a website, it may be annoying, but it is nothing more serious than that. If, however, the electronics in a car or a plane don't process commands exactly when they are supposed to, the consequences can be fatal. Björn Brandenburg and his team study how to construct real-time systems in such a way that it can be proven that they always react on time.



10

regulars

editorial	3
news & trends The world's first electrical car and passenger ferry powered by batteries has entered service in Norway. The ferry only uses 150 kWh per route, which corresponds to three days use of electricity in a standard Norwegian household.	6
interview Dr. Bernd Rothe talks about the futuristic Solar Impulse aircraft	8
seen.heard.read Interesting and useful books and websites	64
preview	65
the last straw	66

features

car park of the future A unique mobility and energy concept in the multi-storey City Car Park in the oldest city in Germany is out to set new standards.	16
hybrid sports car Magna International Inc. introduced its innovative two-seat hybrid sports car at Geneva Motor Show 2015.	20
3D printing isn't rocket science Rocket manufacturer United Launch Alliance (ULA) has the vision to reduce the launch vehicle cost by as much as 50% with the help of 3D printing.	26
A levathian Liebherr's LHM 800 with a capacity of more than 300 tonnes per lift and 22 rows of boxes, is the world's largest mobile harbour crane.	28

history - Franklin and electricity

Benjamin Franklin was a statesman, diplomat, writer, scientist and inventor, one of the most versatile and talented men in colonial America and a leading figure in the American struggle for independence.



61

Hola - Mexico

From the southern jungles to the smoking, snowcapped volcanoes and the cactus-dotted northern deserts, all surrounded by 10,000 km of coast strung with sandy beaches and wildlife-rich lagoons, Mexico is an endless adventure for the senses.



42

technology

basics 24
Some basics about the flow of electricity

technical dictionary 30
Electronics/ Elektronik

history audio 63
The noted American painter Samuel F.B. Morse did put together a telegraph system in 1837. But it was probably his invention of an early version of what we call the „Morse code“ that got him credited with inventing the telegraph.

worldwide

business partner 36
Vietnam – Astonishingly exotic and utterly compelling, Vietnam is a country of breathtaking natural beauty with an incredible heritage that quickly becomes addictive.

topic 22
Many companies recognise the value of allowing employees to nap. Power naps help happier employees to focus.

invented in... 40
Britain: We have collected some of the most inspiring creations made in Britain – from the adhesive postage stamp to the “range and direction finding” technology.

language

business 45
Ideas and innovation

common mistakes 48
Articles

idiomatic english 49
Word field: technicalities

phrases 51

grammar review 52
Working hard or hardly working: adjectives and adverbs

advanced learners 55
Lost in translation

small talk with friends 58

crossword 60