

### 8 Electronic Noses Smell A Big Future

Don't sniff – electronic noses have a big future, from checking your morning coffee to sniffing out explosives. And they're here now – by Peter Holtham

## 14 Logging Your Every Driving Moment

Some airbag controllers do more than just trigger the airbags; they also log your speed and a range of other driving actions – by Julian Edgar

## 85 PC Board Design Tutorial, Pt.2

The basics of component placement and routing, plus a few tips to make your boards look good – by David L. Jones

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And we swore we'd never do another valve audio project. Who was it that said "bottles" were dead? – by Jim Rowe

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It's based on a Luxeon Star/O 1W ultrabright LED, runs off two "D" cells and blasts our previous LED torches into the weeds! -- by John Clarke

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This low-cost project will enable your Picaxe, Stamp or other microcontroller to communicate without wires – by Nenad Stojadinovic

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You've guessed it: the Picaxe 08 chip has several big brothers. Here's a look at the "18A" version, along with a simple temperature sensor – by Stan Swan

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This PIC-based timer can be set for any period from one second up to 680 days and even (theoretically) up to nearly 60 years – by Trent Jackson

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