January 2018

24 DIY WeMo for Home Automation
Here's a device that allows you to wirelessly turn lights on and off without getting off the couch after a long day at the office.
By Anthony Guevara

30 Build a Custom Weather Gauge
In our previous article, we discussed the circuit and code for each of the core components for our Weather Gauge. We took a deep dive on how the stepper is wired up and the node.js code that drives it. Now, it's time to put it all together and light it up in this final installment.
By John Rucker

36 Speaker Protection and Mutting with an Optical Coupler
I was designing and building two identical speaker amps for a stereo system and needed good protection and a mutting capability. Here's what I did.
By Vasile Gorcesa

Columns

08 TechKnowledgey 2018
Events, Advances, and News
Tidbits this time include:
- Dark Matter Matters
- Optical Tweezers to Replace Robots
- Got Your "I" on a Phone?
- More Accuracy, Less Battery Drain
- Feeling Lousy?
- Not Just a Fish Story
- What's Old is New Again
- Timely Anniversary

12 Q&A
Reader Questions Answered Here
Topics discussed this month:
- PIC Sounds for a Camera
- Going the Distance with PIC
- Analog Flickering

16 The Spin Zone
Adventures in Propeller Programming
Fun & Games with the Propeller
While converting a previous project for use in a giant size Ouija board, I had the chance to simplify the code a bit to make it more accessible to those just getting started with the Propeller.

41 Vintage Computing —
Measuring Resistance with Your Mentor's Friend
Previous articles introduced the Mentor's Friend (nicknamed the Amigo): a Propeller-based retro computer that you and a young protege can build together and program in BASIC. This article will discuss how you can measure resistance with your Amigo using a simple RC decay circuit and algorithm. The capability won't be too precise, but it will be good enough to add an important tool to your "sense and control" toolkit.
By Dana Weston

Departments

06 DEVELOPING PERSPECTIVES
Infrastructure Dependence
06 READER FEEDBACK
22 NEW PRODUCTS

50 The Ham's Wireless
Workbench
Practical Technology from the Ham World
Ham Radio in a Pinch
Ham radio often comes to the rescue during disasters when normal communication lines are unavailable. Find out what technical bits and pieces are needed to help get folks through the next storm.

55 The Design Cycle
Advanced Techniques for Design Engineers
Graphical LCD Programming with the Touch Display 4.3
Do you want to make those serial port menus a thing of the past? If you own a copy of the CCS PICC C Compiler, you are halfway there. Go professional with the CCS Touch Display 4.3 Development Kit! If you know how to program using the PICC C compiler, you can drag those outdated serial port menu routines into the Recycle Bin and go graphical.

Subscription Information
Nuts & Volts — PO Box 15277
North Hollywood, CA 91615-9218
Call 877-525-2539 or go to www.nutsvolts.com
Subscribe • Gift • Renewal • Change of Info
For more details on subscribing, see our ad on Page 63.

College of North Atlantic - Qatar
Library