

► For complete building schematics, video and instructions, go to www.designnews.com/GadgetFreak.

► To view the Gadget Freak archives, go to www.designnews.com/gfarchives.



Gadget Cares for Your Best Friend

The Automated Doggy Door feeds your dog, replenishes his water and lets him out into the backyard. Markus Lutz and his team of students at Colorado State University created this complex system that reads your dog's collar and opens the doggy door. The door can also be opened by a step switch right in front of the door, so Fido can let himself out (and back in) at will. It closes automatically after 10 sec. The gadget also fills the dog's food bowl while playing a recording of your voice calling Fido to dinner. The gadget comes with a water bowl mechanism that includes a level sensor and float for automatic water replenishment, so Fido never goes thirsty.

ARE YOU A GADGET FREAK® ? Design News and Allied Electronics would like to send you a check for \$500 to spend on Allied's website at www.alliedelec.com/gf.asp or anywhere you please. Design News will pay an additional \$100 if you camcord your backyard invention (mini DV format is preferable). E-mail Design News your proposed project (must incorporate electronic components and involve sensing, motion, timing and/or networking elements) to elizabeth.taurasi@reedbusiness.com, along with a description of how it works and a parts' list. If your project is selected, you'll receive a \$500 check from Design News and will be featured in an upcoming issue of the magazine with your invention.

ADVERTISEMENT

"DOGGY INS AND OUTS"

Amt	Part Description	Allied Part #
4	Microchip 16F88	383-0496
1	Velleman 12 Key Keypad	948-7876
1	Tinsharp LCD 16X2	670-0036
1	8Ω Speaker	623-2142
1	10K Ω Potentiometer	753-1310
3	LED	679-9981
1	SPST NO Switch	948-0134
2	Momentary Switch	683-0100
1	Toggle Switch	870-0579
1	120V ac Valve Solenoid	499-1391
1	9V dc Relay	788-1081
1	9V Battery	737-0530
1	dc Motor	963-0043
1	Power Strip	660-0685
1	Stepper Motor	316-0038

Additional parts required:

For a complete list of Allied and other parts used to build the Automated Doggy Door, go to <http://rbi.ims.ca/6704-630>.

For parts' information, call (800) 433-5700, or go to www.alliedelec.com/gf.asp

SPONSORED BY »

