



BEERBOT PARTS LIST		
Amt	Part Description	Allied Part #
1	7-segment LED display	505-5462
1	Green LED	263-1239
1	Red LED	263-0115
1	330-Ohm DIP resistor array	755-4815
1	Piezoelectric speaker	854-6636
1	AND gate (quad 2-input)	263-2778
	Inverter (hex)	263-0161
	BCD to 7-segment LED decoder	735-4091
	4 MHz crystal	614-0014
	SPDT relay	686-1011
	1N4001 diode	266-0001
	2N1994 NPN transistor	668-8253
	Pushbutton (NO momentary)	855-1085
	Toggle switch (SPST)	683-0098
	Microswitch	676-8196
1	5V regulator	568-3101

Ryan Pooh-Poohed Those Low-Carb Diets

To keep his roommates from pilfering his beer reserves, Ryan resolved to build a Fort Knox-like protection device. The BeerBot waits for a correct activation code and then pours (drizzles out, actually) beer until a sensor detects the cup is filled. If the thirsty perpetrator enters the wrong code, a speaker sounds an alarm and a counter is incremented—a combo that most assuredly will prevent all but the most foolhardy from attempting another break-in. Ryan now sleeps peacefully knowing his beer is safe and sound.

Additional parts required: Capacitors, resistors, PIC microcontroller, old CD-ROM drive, fluid pump and tubing, fluid sensor, some brewakis

ARE YOU A GADGET FREAK? Allied Electronics would like to send you a shopping list for up to \$500 in hardware that will help you build your own personal beer-dispensing machine. To receive the shopping list, go to www.alliedelec.com/gf.asp. E-mail Design News your proposed project, must include a brief description of components and how you sense the liquid level and networking elements to create a real-time wireless communication with a description of how it works, and a parts list. If your project is selected, you'll receive the shopping list for up to \$500 and a featured mention in our online edition of Design News.

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



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For Ryan Fredric's instructions on how to build your own personal beer-dispensing machine, go to www.designnews.com and click on Gadget Freak.