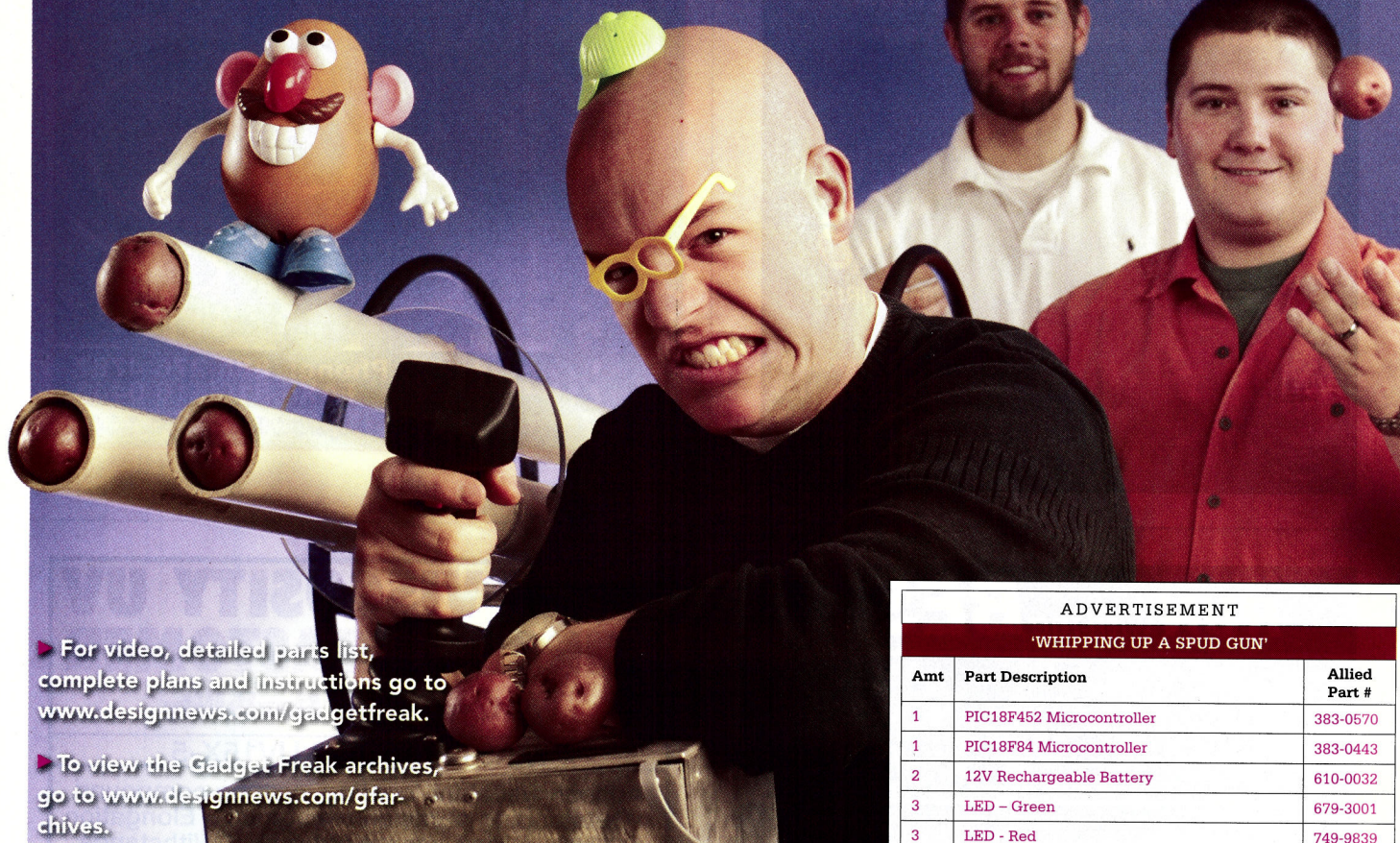


The French Fryin' Legion's New Secret Weapon



► For video, detailed parts list, complete plans and instructions go to www.designnews.com/gadgetfreak.

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

This project is definitely not small potatoes — three barrels loaded with spuds and charged with propane! Two PIC microcontrollers handle the User Interface, Azimuth and Elevation Aiming and Fire Control functions. Aiming is controlled with a joystick. The Fire Control subsystem verifies a projectile is loaded in the selected barrel before injecting the controlled charge of fuel and that the barrel is armed before firing. It doesn't verify the operator's age, sobriety or aim — that's your responsibility. The chips will fall where they may.

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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. 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.

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'WHIPPING UP A SPUD GUN'

Amt	Part Description	Allied Part #
1	PIC18F452 Microcontroller	383-0570
1	PIC18F84 Microcontroller	383-0443
2	12V Rechargeable Battery	610-0032
3	LED - Green	679-3001
3	LED - Red	749-9839
3	LED - Yellow	749-9840
2	Voltage Regulator - 5V	371-0220
1	Buzzer - 5V	404-0121
1	Oscillator - 4 Mhz	302-0141
2	H-Bridge	288-1573
Other Parts and Materials:		
1	3-Axis Hall Effect Joystick with 5 NO Buttons	
2	Mechtex dc Motor w/ 750:1 Gear Box, 12V	
1	15" Telescope Base plus Azimuth Rocker and 2 Altitude Rings	
3	Propane Torch Head	
3	#26 Automotive Spark Plug	
3	TTL Controlled Ignition Coil	
3	Bosch Solenoid Injection Valves	
	More batteries, plumbing, mechanical & electrical hardware (see text)	

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

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