Jared’s Ride Isn’t Fly, but the Steering’s Perfect

So he always stays on course, Jared designed a mechatronic device that simulates perfect steering in an automobile. The small-scale, single-wheel model determines the speed of wheel rotation from the magnitude of the curve it’s traveling. It works by setting the initial speed of a PIC-controlled dc motor, then uses a manual-input turn radius to vary the speed of the motor and advance a PIC-controlled stepper motor one visible step (7.5 deg) in the specified direction.

For Jared Cummings’ complete instructions, including software code, on how to build your own perfect steering device, go to http://rbi.ims.ca/4400-555.

ARE YOU A GADGET FREAK? Allied Electronics would like to send you a check for $500 for you to spend on its 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 dnhonline@reedbusiness.com, along with a description of how it works, and a parts list. If your project is selected, you’ll receive a crisp $500 check from Design News and will be featured in an upcoming issue of the magazine with your invention.

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

SPONSORED BY

PHOTO: PAUL WEDLAKE

86 DESIGN NEWS 11.07.05 [www.designnews.com]