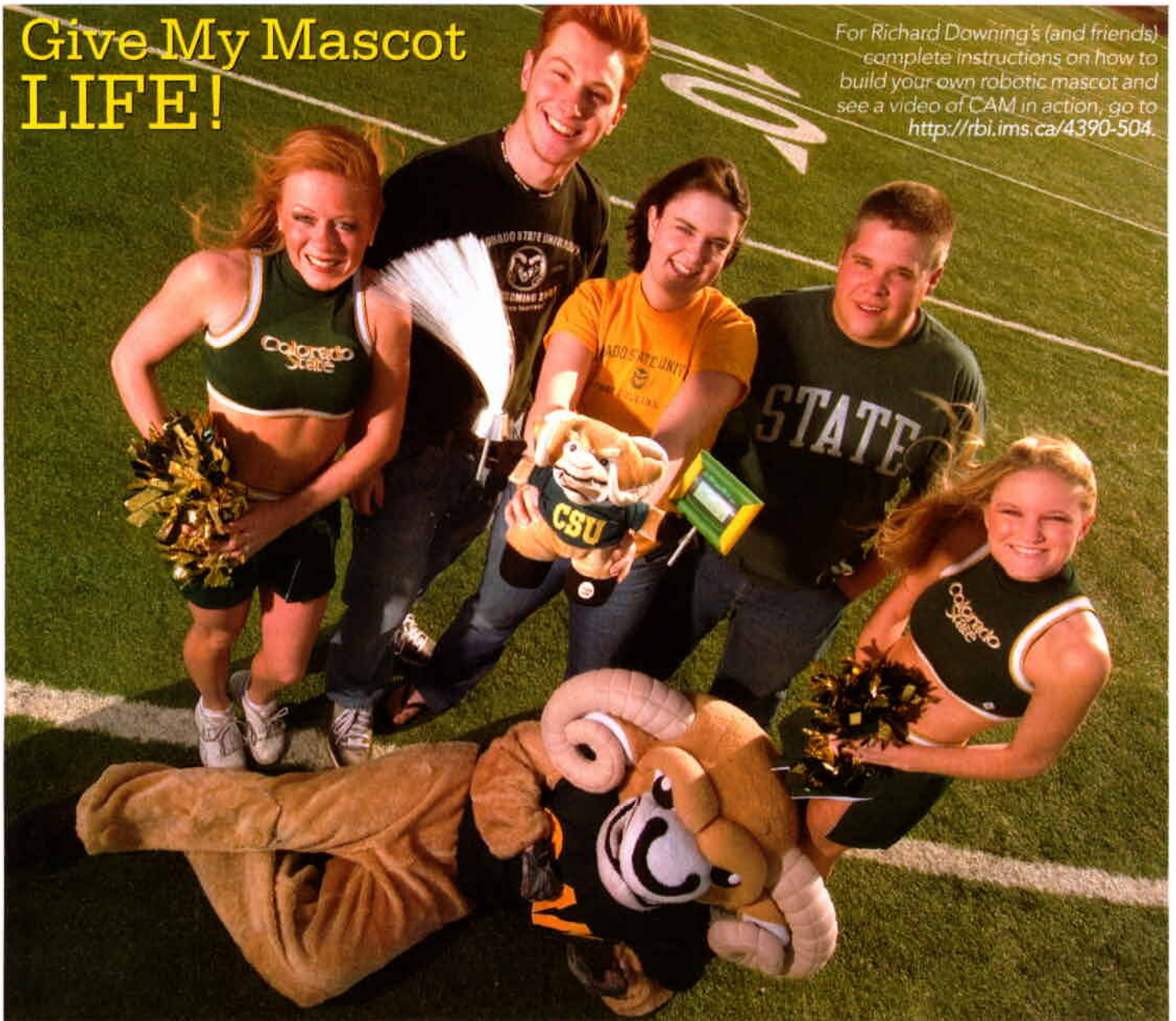


Give My Mascot LIFE!

For Richard Downing's (and friends') complete instructions on how to build your own robotic mascot and see a video of CAM in action, go to <http://rbi.ims.ca/4390-504>.



ROBOTIC MASCOT PARTS LIST

| Amt | Part Description | Allied Part # |
|-----|-------------------|---------------|
| | potentiometer | 753-1310 |
| | Power transistor | 148-1005 |
| 1 | Yellow LED | 165-9060 |
| | Voltage regulator | 163-0135 |
| | Op amp | 714-2561 |
| | Ribbon cable | 943-4041 |

Additional parts required: "Cam the Ram" stuffed doll; lamp with fiber-optic pom and blue LEDs; 5V dc motor; LCD frame; assorted resistors and capacitors; wires; oscillator; 2 PIC microcontrollers; batteries and holder; 8-pin DIP IC holder; LCD pins; 20-pin DIP IC holder

Looking to add some monstrous fun to school pep rallies and football games, Richard and three friends working toward engineering degrees at Colorado State University decided to create a robotic mascot. Controlled by two microcontrollers, "Cam the Ram" awaits input from a normally open button or an amplified condenser microphone. The triggering of either input sends Cam through one of four "routines" involving several counted actions that include blinking lights, an LCD screen, a fiber-optic pom-pom, and a speaker.

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 dnonline@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.

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