Christina and the Dangerous Duck Slalom

To light the way home after a late night cramming at the library, Christina and friends designed this smart bike light. Using two microcontrollers and powered by a battery pack that mounts to the bike's down tube, the device monitors both the bicycle speed (via Hall Effect magnet) and amount of daylight (via photoconductive cell). When dwindling light is detected during operation, the unit sounds an on-tone and exposes and turns on an array of white LEDs. A four-line LCD display indicates both status and speed.

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