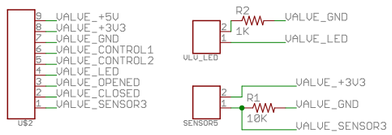
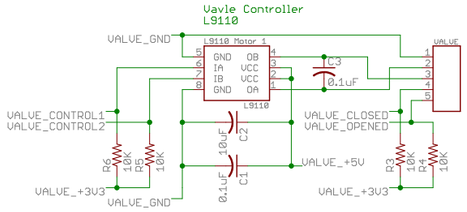
Valve Board

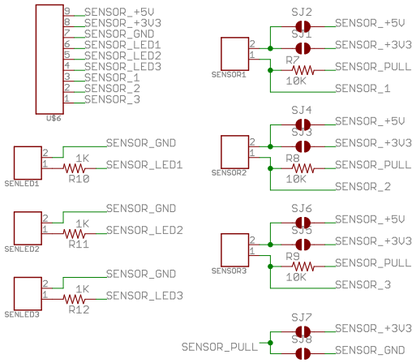
Controls 1 motorized valve with sensor wires that read GND when that state (open/closed) is active. Optional status LED and sensor input.





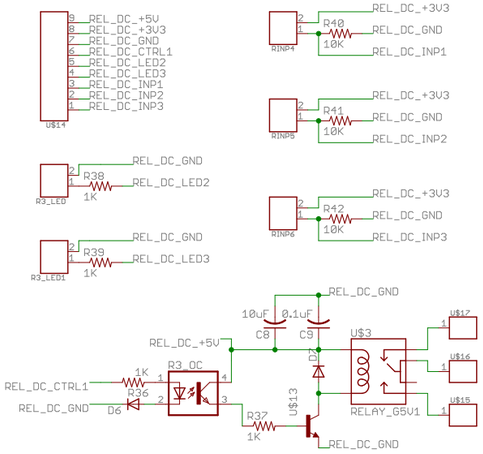
Sensor Board

3 sensor inputs with pull up or down resistors. 3 LED outputs using 3V3 and 1k resistors. 3v/5v option on the sensor inputs because leak rope sensor requires 5v to function and works with 3v analog only inputs. NOTE: rope leak sensor requires analog input - won't work with digital. During build, must solder jumper to select sensor power level and pull down/up.



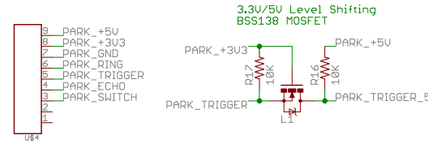
Relay DC

5V DC relay. 2 output LED's, 3 inputs will pull down resistors for switches or sensors.



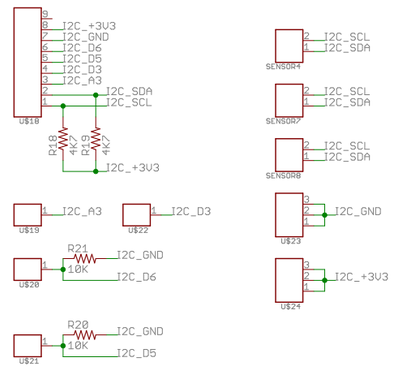
Parking LED Ring

Distance sensor needs fast timing so can only be plugged into the top card slot and use Arduino pins directly instead of through shift registers.
Pin 1/2 (A4/A5) are left open on the main connector to allow I2C pins to remain available for other sensors on the main board.



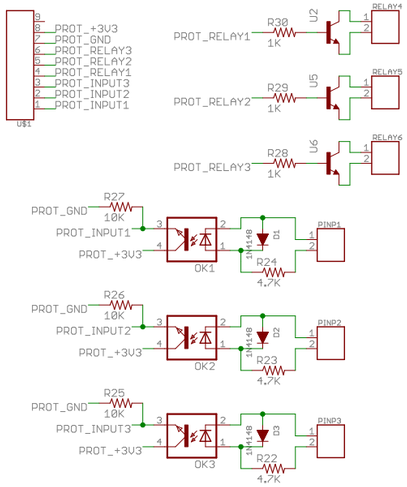
I2C Board

3 I2C inputs with pull up resistors. Other pins are pass throughs. Only works on the top card slot, not through shift registers.



Protected Input Board

3 transistor outputs for simple DC relay style switching. 3 protected inputs for reading ~12V signal lines. Primary use for reading external PIR and camera signal wires and signalling cameras to record.



Relay AC High Power

High power AC relay control with LED and switch with pull down resistor.
Relay is 5V NO/NC.