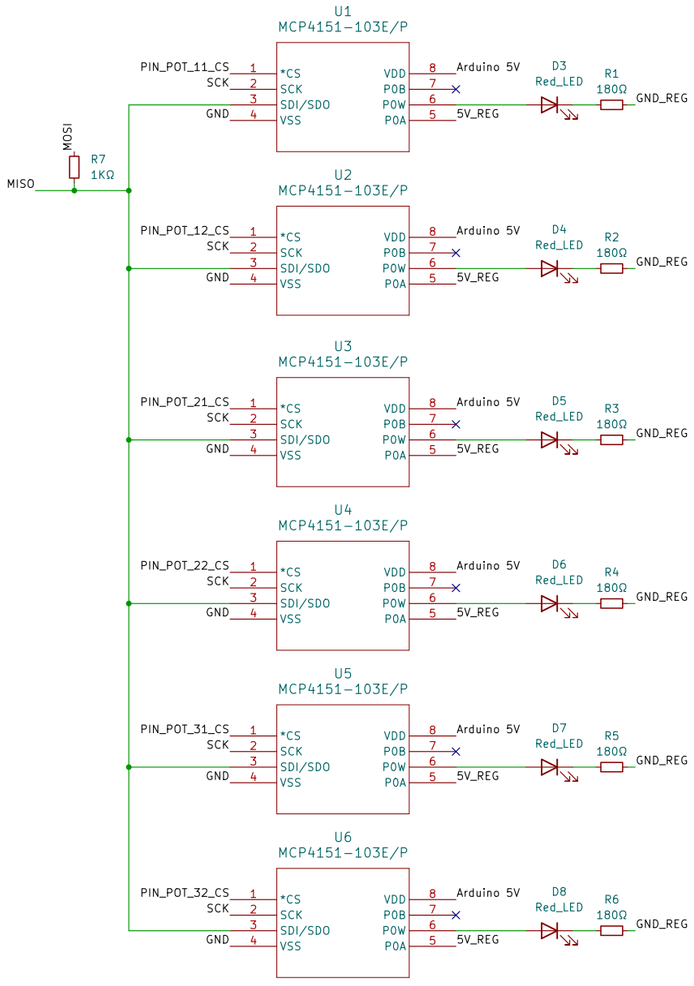
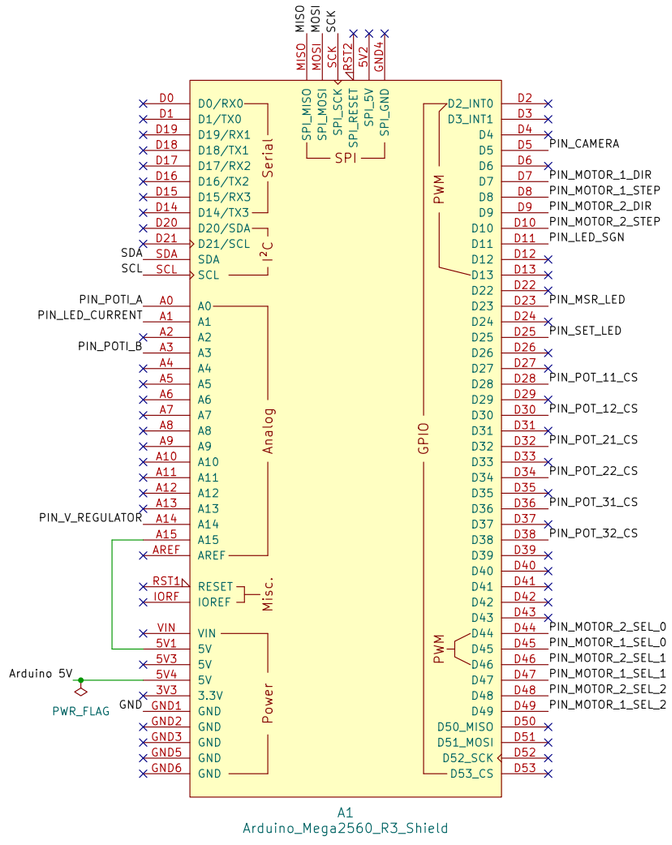
LED Control Circuit

6 LEDs with brightness individually controlled
by a MCP4151 functioning as rheostat

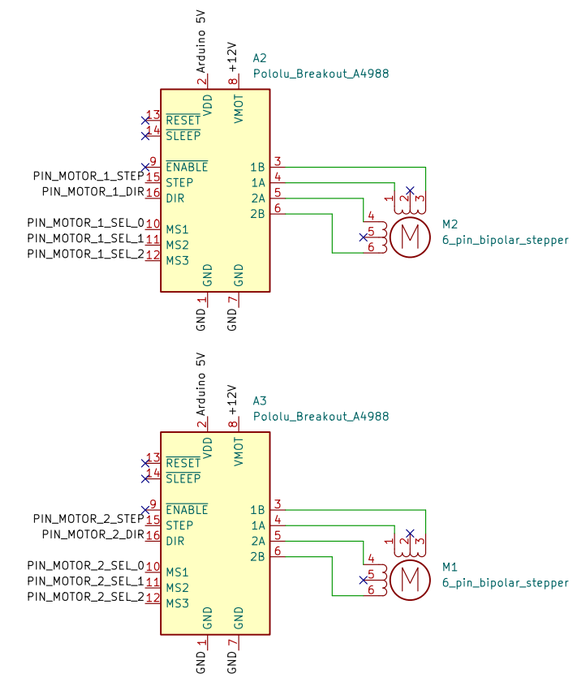


Arduino Mega Pin Assignments

Label names same as pin macros in wind_tunnel.ino

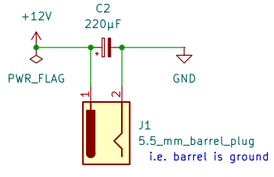


Polarizer Motors



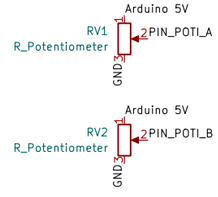
12V Power

For motors and 5V regulator

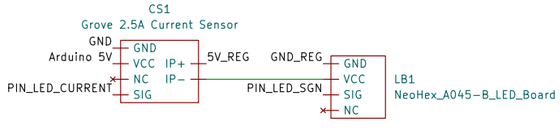


Angle Sensors

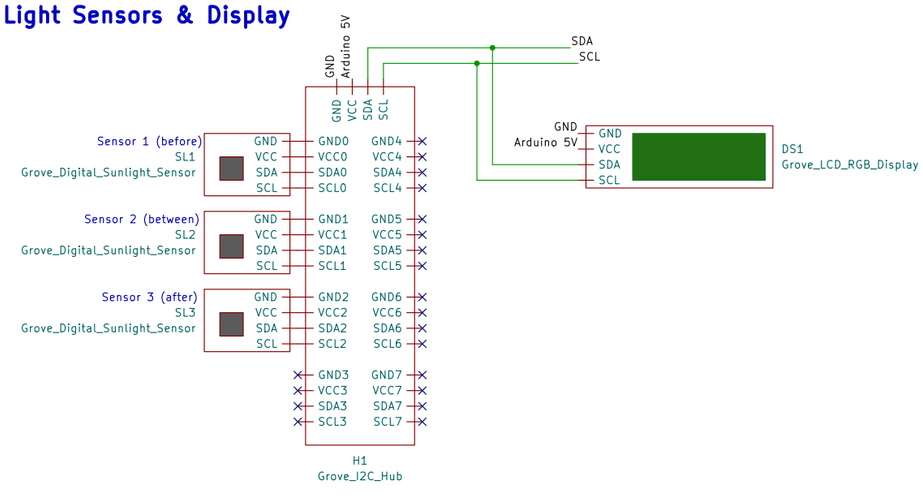
Rotary potentiometers



Light Source

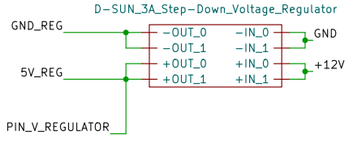


Light Sensors & Display



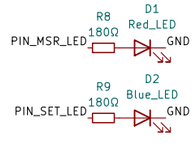
5V Power

Stepped down from 12 V, for light source & LEDs



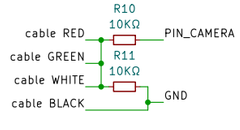
Debug LEDs

SET / MSR LEDs shown on front panel



Camera Trigger

You have to break open the clicker box on the SONY camera trigger (see component list file). Then, unsolder the cable connections (red, green, white and black wires) and connect as indicated below (e.g., on a breadboard)



Causal Chamber — Light Tunnel

Mk 1 (prototype from the Nature MI paper)

Sheet: /
File: light_tunnel_mk_4.kicad_sch

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Title: Light Tunnel Mk. 1

Size: A3	Date: 2024-04-22	Rev: 1
KiCad E.D.A. 9.0.5		Id: 1/1