

CONNECTORS

PW: Power Connector

- 1 - VCC
- 2 - GND

J1: UART Connector

- 1 - Device RX
- 2 - Device TX

J2: Photoresistor Connector

- 1 - +5V
- 2 - A0 - 10k Pull-down resistor

J3: SRF-04 Ultrasonic sensor

- 1 - +5V
- 2 - D5 - Trigger
- 3 - D4 - Echo
- 4 - GND

J4-J5: 1604 I2C LCD Screen

- 1 - GND
- 2 - +5V
- 3 - SDA
- 4 - SCL

J6-J7-J8: LEDs

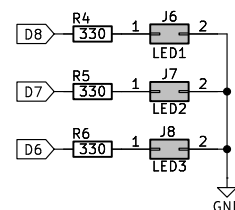
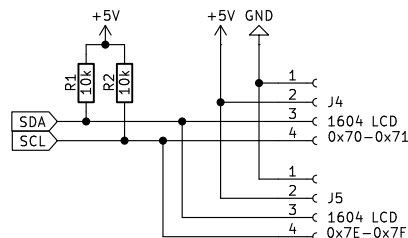
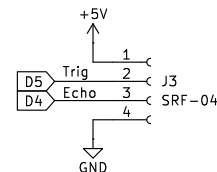
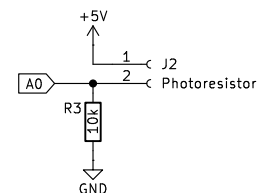
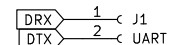
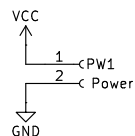
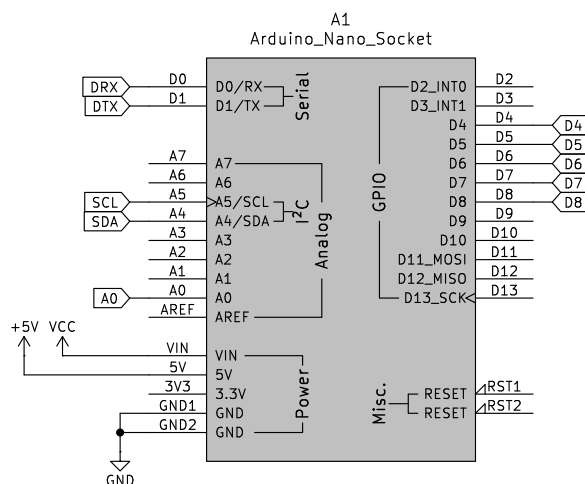
- 1 - Dx - Current limiting R
- 2 - GND

COMPONENTS

- R1 - 10K - Pull-up I2C SDA
- R2 - 10K - Pull-up I2C SCL
- R3 - 10K - Pull-down Photoresistor
- R4 - 330 - LED current limiting
- R5 - 330 - LED current limiting
- R6 - 330 - LED current limiting

LCD (PCF8574A) I2C
Address lookup table:

	A2	A1	A0	READ	WRITE
J4:	L	L	L	0x71	0x70
J5:	H	H	H	0x7F	0x7E



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File: Schematic.kicad_sch

Title:

Size: A4
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Date:

Rev:

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