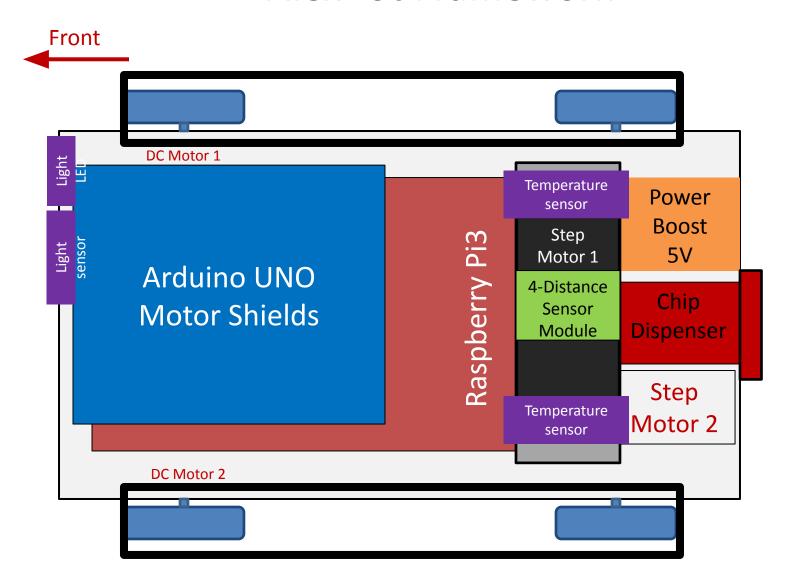
AlexBot Connections

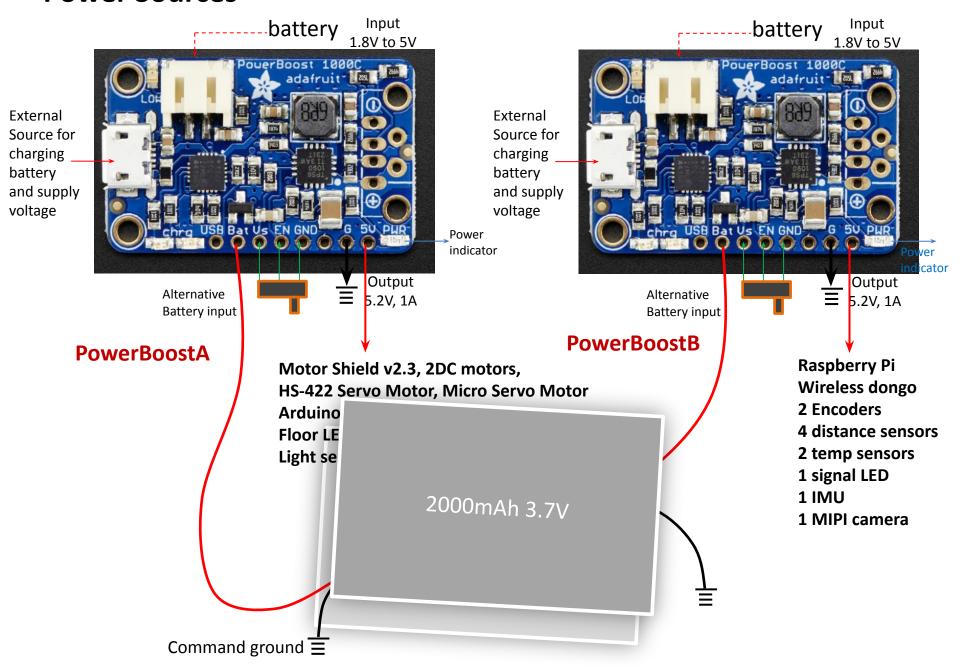
10/28/2017

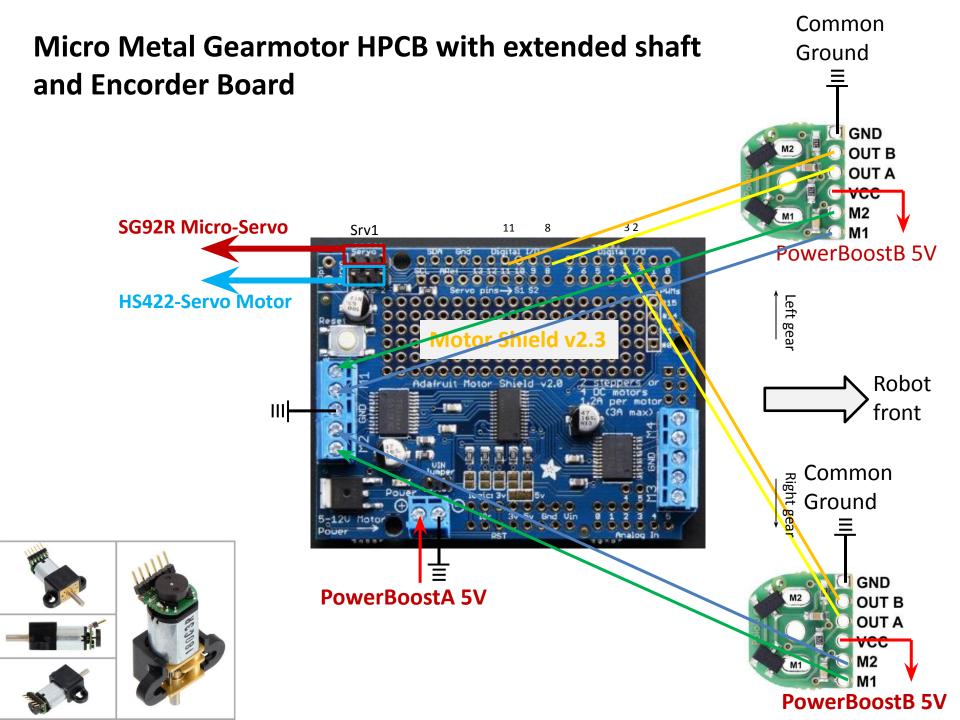
Version 1.0

AlexBot Framework



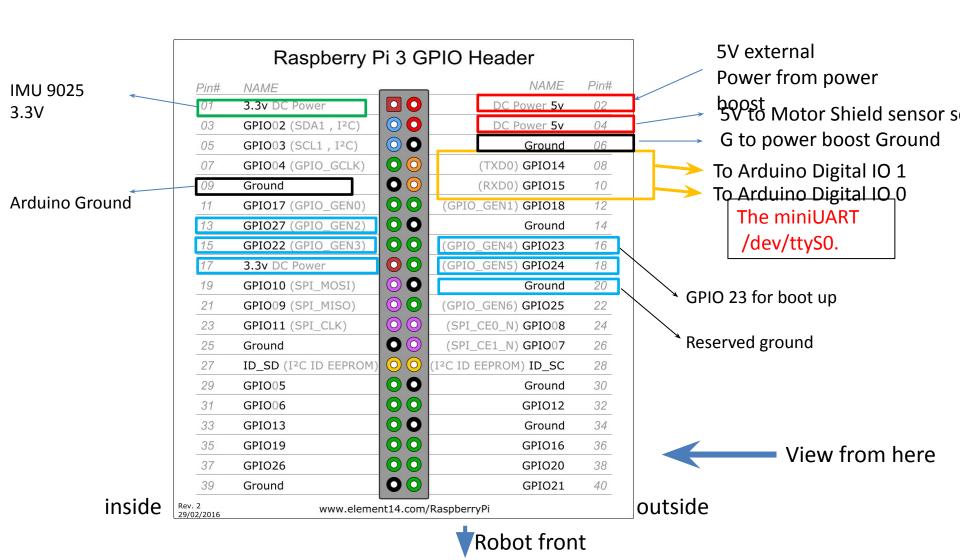
Power Sources





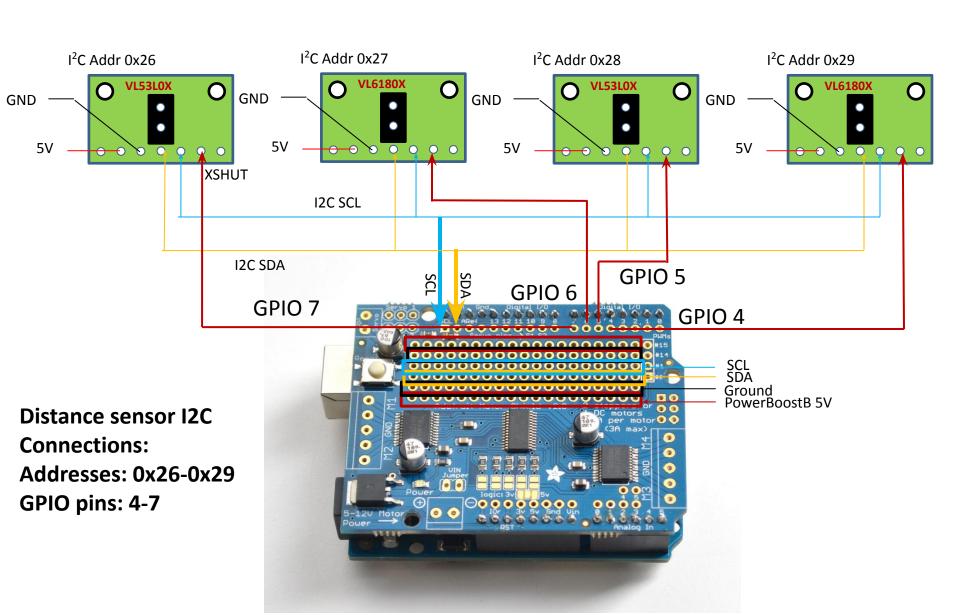
Raspberry Pi 3

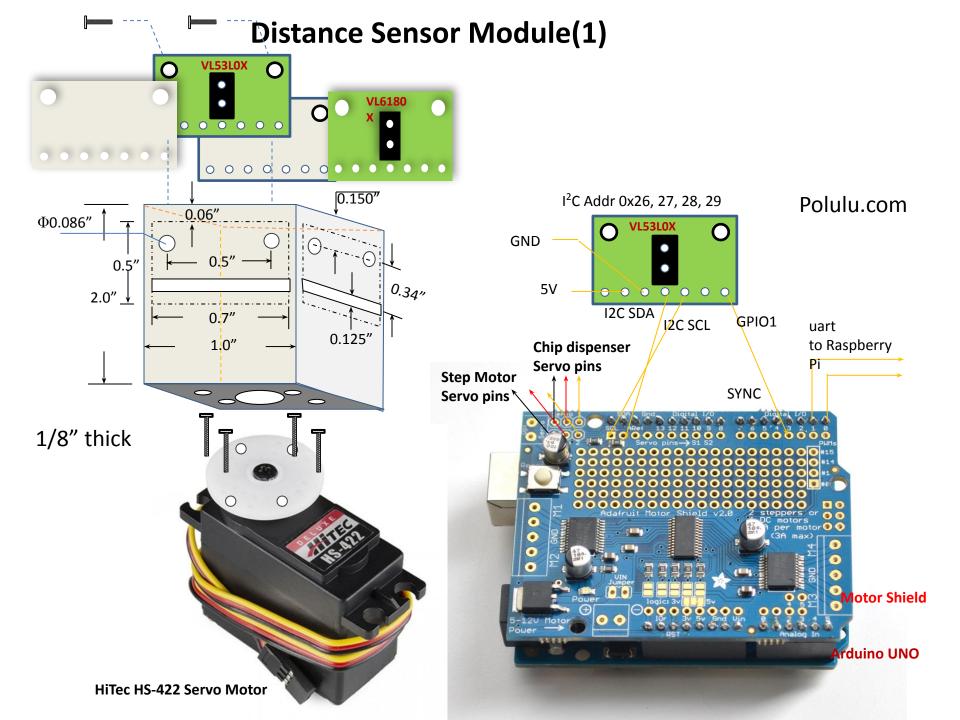
I2C on Pi Configuration

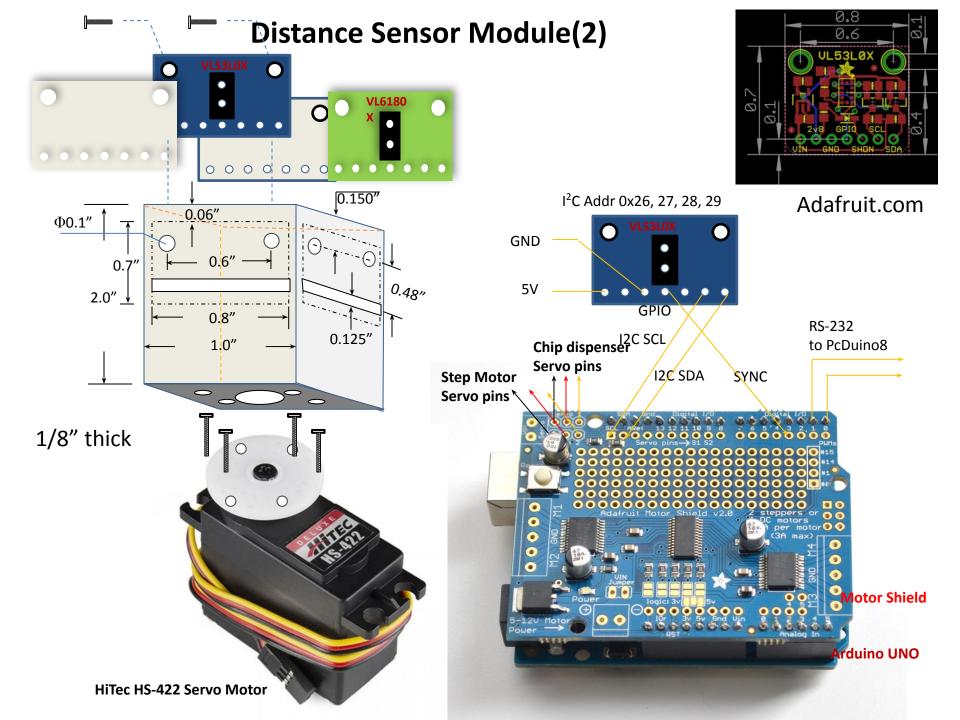


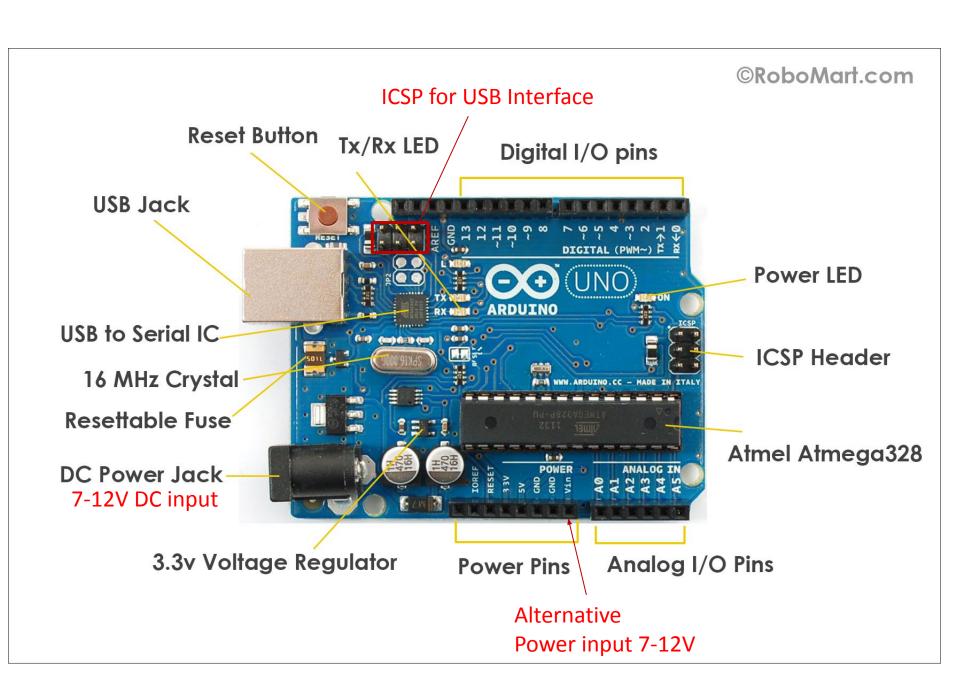
Multiple Distance Sensor Module Connections

Polulu.com

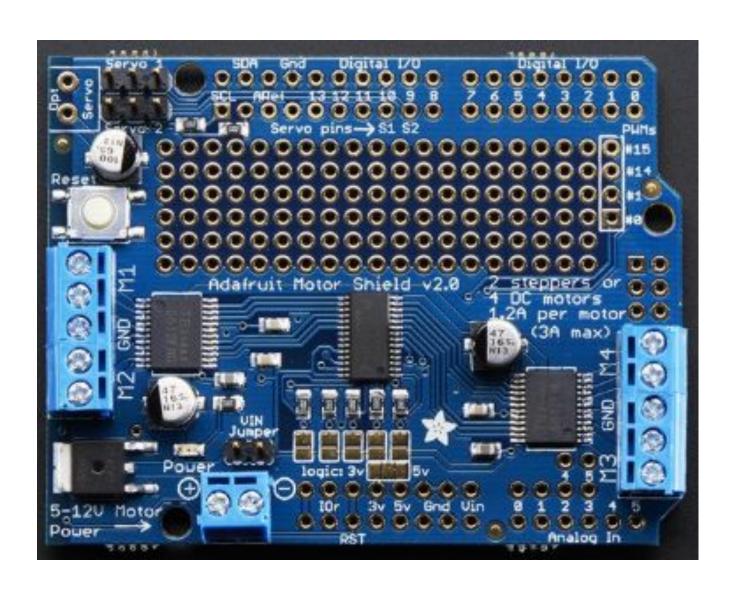






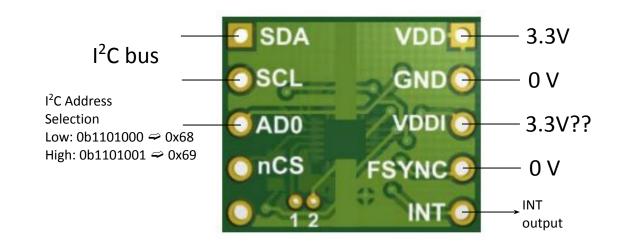


Motor Shield Connections

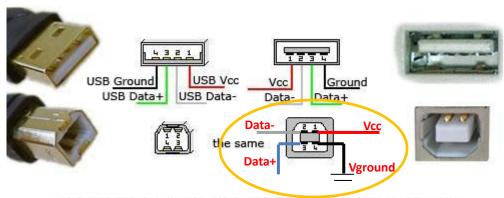


MPU-9250 break board

(I	MSENSR-	MPU9250 Pir	Descriptions	
	Pin	Name	Type	Function
	P1 1	VDD	Input	Power Supply, 1.71-3.45 V
9 Axis	P1 2	Gnd	Ground	Ground. Connect to ground on the PCB
0 = 0	P1 3	VDDIO	Input/Output	Digital I/O Supply Voltage, 1.71-3.45 V
	P1 4	FSYNC	Input	Synchronization digital input (optional). Connect to GND if unused.
Q = Tymi	P1 5	INT	Input	Interrupt digital output (totem pole or open-drain)
EMSENSR-9250	P2 1	SDA/SDI	Output	I2C serial data (SDA); SPI serial data input (SDI)
	P2 2	SCL/SCLK	Output	I2C serial clock (SCL); SPI serial clock (SCLK)
	P2 3	ADO/SDO	Output	I2C slave address LSB (ADO); SPI serial data output (SDO)
	P2 4	nCS	Input	Chip Select (o=SPI mode, 1=I2C Mode)
	P2 5	NC	NC	Not Used



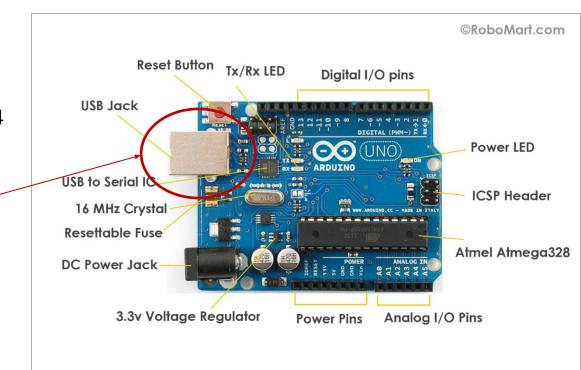
USB pinout



USB is a serial bus. It uses 4 shielded wires: two for power (+5v & GND) and two for differential data signals (labelled as D+ and D- in pinout)

http://pinouts.ru/Slots/USB_pinout.shtml

- Unsolder the USB port from Arduino UNO. Connect the physical port to the board with 4 wires. Ground connects to the port case.
- With this change, programming Arduino board does not need to move other wires and boards and motors.



Dip Switch Control Mini-board

Connection to Raspberry PI-3 Board Digital I/O

