VIAM

RASPBERRY PI

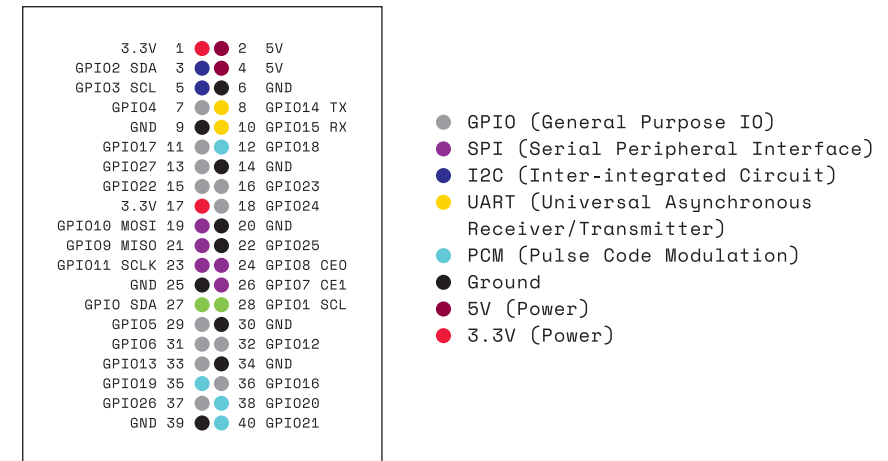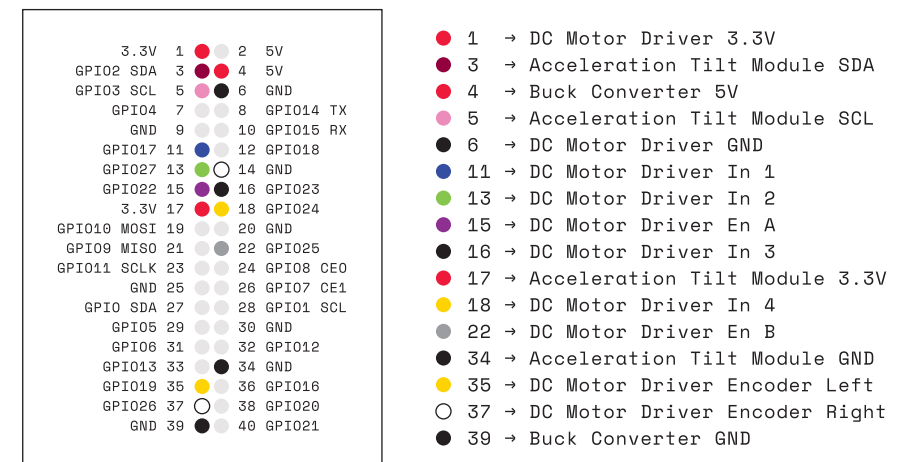| Left Label	Pin	Pin	Right Label
3.3V DC POWER	1	2	5V DC POWER
I2C | SDA | GPIO 2	3	4	5V DC POWER
I2C | SCL | GPIO 3	5	6	GND
GPIO 4	7	8	GPIO 14 | TXD | UART
GND	9	10	GPIO 15 | RXD | UART
GPIO 17	11	12	GPIO 18 | CLK | PCM
GPIO 27	13	14	GND
GPIO 22	15	16	GPIO 23
3.3V DC POWER	17	18	GPIO 24
SPI | MOSI | GPIO 10	19	20	GND
SPI | MISO | GPIO 9	21	22	GPIO 25
SPI | SCLK | GPIO 11	23	24	GPIO 8 | CE0 | SPI
GND	25	26	GPIO 7 | CE1 | SPI
ID SD	27	28	ID SC
GPIO 5	29	30	GND
GPIO 6	31	32	GPIO 12
GPIO 13	33	34	GND
PCM | FS | GPIO 19	35	36	GPIO 16
GPIO 26	37	38	GPIO 20 | DIN | PCM
GND	39	40	GPIO 21 | DOUT | PCM

How to use

Print this page out at 100% scaling (**do not** select "fit to page"). Cut out one of the sheets below, and stick directly on to your Raspberry Pi pins to make wiring your next robot as easy as pie.

Raspberry Pi 4 Leaf

Left Label	Pin	Pin	Right Label
3.3V	1	2	5V
GPIO2 SDA	3	4	5V
GPIO3 SCL	5	6	GND
GPIO4	7	8	GPIO14 TX
GND	9	10	GPIO15 RX
GPIO17	11	12	GPIO18
GPIO27	13	14	GND
GPIO22	15	16	GPIO23
3.3V	17	18	GPIO24
GPIO10 MOSI	19	20	GND
GPIO9 MISO	21	22	GPIO25
GPIO11 SCLK	23	24	GPIO08 CE0
GND	25	26	GPIO7 CE1
GPIO SDA	27	28	GPIO1 SCL
GPIO5	29	30	GND
GPIO6	31	32	GPIO12
GPIO13	33	34	GND
GPIO19	35	36	GPIO16
GPIO26	37	38	GPIO20
GND	39	40	GPIO21

- ● GPIO (General Purpose IO)
- ● SPI (Serial Peripheral Interface)
- ● I2C (Inter-integrated Circuit)
- ● UART (Universal Asynchronous Receiver/Transmitter)
- ● PCM (Pulse Code Modulation)
- ● Ground
- ● 5V (Power)
- ● 3.3V (Power)

Rover Pi 4 Leaf

Left Label	Pin	Pin	Right Label
3.3V	1	2	5V
GPIO2 SDA	3	4	5V
GPIO3 SCL	5	6	GND
GPIO4	7	8	GPIO14 TX
GND	9	10	GPIO15 RX
GPIO17	11	12	GPIO18
GPIO27	13	14	GND
GPIO22	15	16	GPIO23
3.3V	17	18	GPIO24
GPIO10 MOSI	19	20	GND
GPIO9 MISO	21	22	GPIO25
GPIO11 SCLK	23	24	GPIO08 CE0
GND	25	26	GPIO7 CE1
GPIO SDA	27	28	GPIO1 SCL
GPIO5	29	30	GND
GPIO6	31	32	GPIO12
GPIO13	33	34	GND
GPIO19	35	36	GPIO16
GPIO26	37	38	GPIO20
GND	39	40	GPIO21

- ● 1 → DC Motor Driver 3.3V
- ● 3 → Acceleration Tilt Module SDA
- ● 4 → Buck Converter 5V
- ● 5 → Acceleration Tilt Module SCL
- ● 6 → DC Motor Driver GND
- ● 11 → DC Motor Driver In 1
- ● 13 → DC Motor Driver In 2
- ● 15 → DC Motor Driver En A
- ● 16 → DC Motor Driver In 3
- ● 17 → Acceleration Tilt Module 3.3V
- ● 18 → DC Motor Driver In 4
- ● 22 → DC Motor Driver En B
- ● 34 → Acceleration Tilt Module GND
- ● 35 → DC Motor Driver Encoder Left
- ○ 37 → DC Motor Driver Encoder Right
- ● 39 → Buck Converter GND

Inspired by the original Raspberry Pi Leaf by Simon Monk