This table maps the RaspberryPi GPIO pins with its usage in Bob the robot

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **description** | **GPIO PINs** | **Port no** |  | **Port no** | **GPIO PINs** | **Bob description** |
| fan | 3.3V Power | 1 |  | 2 | 5V Power | tfluna |
| gryo | GPIO 2 | 3 |  | 4 | 5V Power | gyro |
| gyro | GPIO 3 | 5 |  | 6 | Ground | na |
| Na | GPIO 4 | 7 |  | 8 | UART0 TX | Tf luna |
| Na | Ground | 9 |  | 10 | UART0 RX | Tf luna |
| Motor controller in1 | GPIO 17 | 11 |  | 12 | GPIO 18 | Motor controller in2 |
| Na | GPIO 27 | 13 |  | 14 | Ground | Tf luna |
| Motor controller in3 | GPIO 22 | 15 |  | 16 | GPIO 23 | Motor controller in4 |
| Na | 3.3V Power | 17 |  | 18 | GPIO 24 | na |
| Na | GPIO 10 | 19 |  | 20 | Ground | na |
| Na | GPIO 09 | 21 |  | 22 | GPIO 25 | na |
| na | GPIO 11 | 23 |  | 24 | GPIO 08 | na |
| gyro | Ground | 25 |  | 26 | GPIO 07 | na |
| na | Reserved | 27 |  | 28 | Reserved | na |
| huskylen | GPIO 05 | 29 |  | 30 | Ground | na |
| na | GPIO 06 | 31 |  | 32 | GPIO 12 | na |
|  | GPIO 13 | 33 |  | 34 | Ground | Motor controller |
| na | GPIO 19 | 35 |  | 36 | GPIO 16 | na |
| na | GPIO 26 | 37 |  | 38 | GPIO 20 | na |
| fan | Ground | 39 |  | 40 | GPIO 21 | na |