# SAD Pinout

|  |  |  |  |
| --- | --- | --- | --- |
| **Pi** | **GPIO** | **Chip use** | **Software use / what does it do / extra info** |
| Zero | 24 | BIN2 | In1 left in code. Controls direction of left motor. |
| Zero | 23 | BIN1 | In2 left in code. Controls direction of left motor. |
| Zero | 17 | AIN1 | In1 right in code. Controls direction of right motor. |
| Zero | 27 | AIN2 | In2 right in code. Controls direction of right motor. |
| Zero | 12 | PWMA | PWM0 on the Pi. Controls the speed of the left motor |
| Zero | 13 | PWMB | PWM1 on the Pi. Controls the speed of the right motor |
| Zero | 5 | ENCA – left | encoder A left. Reads ticks from the encoder. |
| Zero | 6 | ENCB – left | encoder B left. Reads offset ticks from the encoder. |
| Zero | 19 | ENCA – right | encoder A right. Reads ticks from the encoder. |
| Zero | 26 | ENCB – right | encoder B right. Reads offset ticks from the encoder. |
| 4B | 6 | UNUSED | UNUSED. Dark blue wire in female header row. |
| 4B | 5 | Data pin outer left IR | Lighter blue wire in female header row. |
| 4B | 25 | Data pin inner right IR | Yellow wire in female header row. |
| 4B | 24 | Data pin outer right IR | Purple wire in female header row. |
| 4B | 23 | Data pin inner left IR | Green wire in female header row. |
| 4B | 16 | SERVO GPIO – CLAW | Front most servo GPIO. Connected to claw servo. |
| 4B | 12 | LARGE SERVO GPIO – CAMERA | Second from front most servo GPIO. Connected to camera servo. |
| 4B | 13 | LARGE SERVO GPIO – ARM | Third from front most servo GPIO. Connected to arm servo. |
| 4B | 26 | SERVO GPIO - DOOR | Back most servo GPIO. Connected to rear door servo. |
| 4B |  |  |  |
| 4B |  |  |  |
| 4B |  |  |  |
| 4B |  |  |  |
| 4B |  |  |  |