|  |  |
| --- | --- |
| Arduino | **Motor driver** |
| Motor black | w- |
| Motor red | W+ |
| Battery - | B- |
| Battery+ | B+ |
| 5v | VCC |
| GND | GND |
| 5 | RPWM |
| 6 | LPWM |
| 23 | R\_EN |
| 24 | L\_EN |

|  |  |
| --- | --- |
| Arduino | **IMU** |
| 21(SCL) | SCL |
| SDA (20) | SDA |
| 3.3V | 3.3V |
| GND | GND |

|  |  |
| --- | --- |
| Arduino | **GPS** |
| 11 | RX |
| 10 | TX |
| 5V | VCC |
| GND | GND |

|  |  |
| --- | --- |
| Arduino | **SD** |
| 50 | MISO |
| 51 | MOSI |
| 52 | SCK |
| 53 | CS |
| 5V | VCC |

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| --- | --- |
| Arduino Nano | **servo** |
| 7 | Servo input |
| 5V | 5V |
| GND | GND |

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| --- | --- |
| Arduino | Arduino Nano |
| SDA | A4 |
| SCL | A5 |
| 5V | 5V |
| GND | GND |

|  |  |
| --- | --- |
| Arduino | **Ultrasonic** |
| TRIG\_PIN front | 8 |
| ECHO\_PIN front | 9 |
| TRIG\_PIN 2 right | 10 |
| ECHO\_PIN 2 right | 11 |
| TRIG\_PIN 3 left | 5 |
| ECHO\_PIN 3 left | 6 |
| Vcc | 5v |
| GND | GND |

|  |  |
| --- | --- |
| Arduino | **pi** |
| GND | GND |
| RX | 8 |
| TX | 10 |
| SDA | 3 |
| SCL | 5 |

|  |  |
| --- | --- |
| Arduino | **LED** |
| 36 | Blue (IMU) |
| 37 | Green (GPS) |
| 38 | Yellow (I2C) |