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| Port | Description | Pin |
| 1 | Vcc for the right IR sensor | IR Module – Vcc 1 |
| 2 | Ground for the right IR sensor | IR Module – GND 1 |
| 3 | Output of the right IR sensor | IR Module – IN1 |
| 4 | Vcc for the middle IR sensor | IR Module – Vcc 2 |
| 5 | Ground for the middle IR sensor | IR Module – GND 2 |
| 6 | Output of the middle IR sensor | IR Module – IN2 |
| 7 | Vcc for the left IR sensor | IR Module – Vcc 3 |
| 8 | Ground for the left IR sensor | IR Module – GND 3 |
| 9 | Output of the left IR sensor | IR Module – IN3 |
| 10 | Right IR Output to the Arduino | Arduino - 41 |
| 11 | Middle IR Output to the Arduino | Arduino - 42 |
| 12 | Left IR Output to the Arduino | Arduino - 43 |
| 13 | RFID - SDA | Arduino - 53 |
| 14 | RFID - SCK | Arduino - 52 |
| 15 | RFID - MOSI | Arduino - 51 |
| 16 | RFID - MISO | Arduino - 50 |
| 17 | RFID – RST | Arduino - 5 |
| 18 | RFID – Voltage input | Arduino - 3.3v pin |
| 19 | Left Motor – A | Motor Driver – Out 1 |
| 20 | Left Motor – B | Motor Driver – Out 2 |
| 21 | Right Motor – A | Motor Driver – Out 3 |
| 22 | Right Motor – B | Motor Driver – Out 4 |
| 23 | Motor Driver input to control the left motor A | Arduino – 6 |
| 24 | Motor Driver input to control the left motor B | Arduino – 7 |
| 25 | Motor Driver input to control the right motor A | Arduino – 8 |
| 26 | Motor Driver input to control the right motor B | Arduino – 9 |
| 27 | Trig pin of the right ultrasonic | Arduino – 46 |
| 28 | Echo pin of the right ultrasonic | Arduino – 47 |
| 29 | Trig pin of the left ultrasonic | Arduino – 48 |
| 30 | Echo pin of the left ultrasonic | Arduino – 49 |
| 31 | Trig pin of the back ultrasonic | Arduino – 44 |
| 32 | Echo pin of the back ultrasonic | Arduino – 45 |