PINS OF THE CAR

In this document, you will see the pins of which electronics are connected to the ESP32 and what they are supposed to do.

MOTOR PINS

In this part you will see the pins that make the motor move.

ENB 12

IN4 14

IN3 13

SERVOMOTOR PIN

In this case the servomotor only has 1 pin that is connected to the ESP32, meanwhile the other 2 pins are connected to an energy regulator. The pin of the servomotor is:

Servo 27

T.o.F. PINS

If you are wondering what Tof sensors this are is your place, ToF sensors also know by Time-of-Flight sensors is a distance type measurement device that uses light or electromagnetic waves, in this case we use light to measure distance. We use 2 ToF sensors, one on the right and the other on the left. These are the pins:

BNO VCC VCC1

ToFR VCC VCC2 (This is the right ToF sensor)

ToFL VCC D15 V (This is the left ToF sensor and the V is for voltage)

ToFRGND GND2

ToFLGND D15

IMU PINS

The IMU is an inertial measurement unit, or IMU, is an electronic device that measures and reports velocity, orientation, and direction. These are the pins:

BNOGND GND1

SCL BNO D22

SDA BNO D21

X input L D25

X input R D26

PIXY PINS

The pixy cam is a very used device to detect colors and blocks. The pins that we used to connect to the ESP32 are:

5v 5v

Mosi D23

GND D35

Miso D19

SCK D18

SPI D5