AROID 26.01
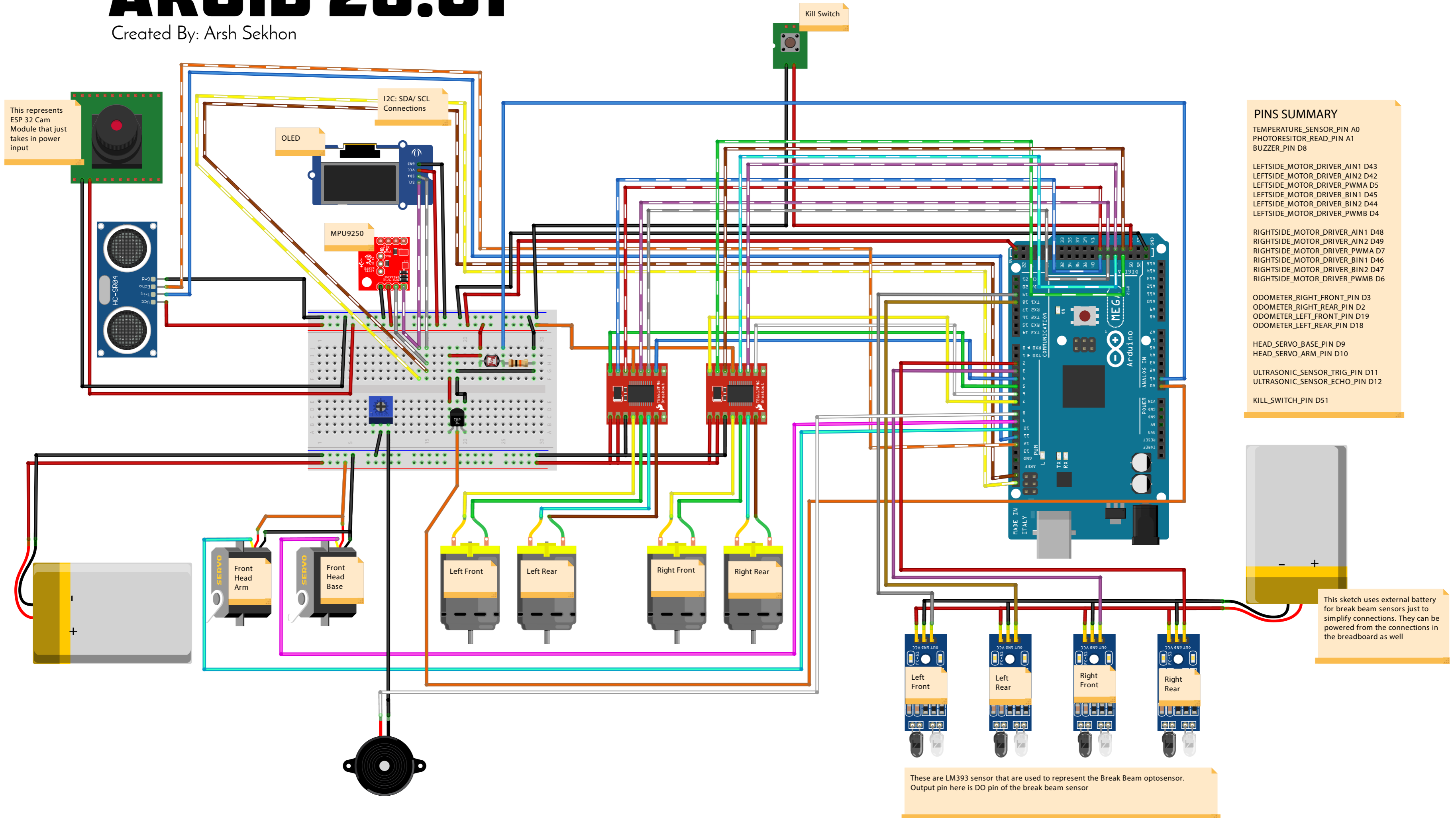
Created By: Arsh Sekhon

Kill Switch

This represents ESP 32 Cam Module that just takes in power input

I2C: SDA/ SCL Connections

OLED

MPU9250

HC-SR04

PINS SUMMARY

TEMPERATURE_SENSOR_PIN A0
PHOTORESITOR_READ_PIN A1
BUZZER_PIN D8

LEFTSIDE_MOTOR_DRIVER_AIN1 D43
LEFTSIDE_MOTOR_DRIVER_AIN2 D42
LEFTSIDE_MOTOR_DRIVER_PWMA D5
LEFTSIDE_MOTOR_DRIVER_BIN1 D45
LEFTSIDE_MOTOR_DRIVER_BIN2 D44
LEFTSIDE_MOTOR_DRIVER_PWMB D4

RIGHTSIDE_MOTOR_DRIVER_AIN1 D48
RIGHTSIDE_MOTOR_DRIVER_AIN2 D49
RIGHTSIDE_MOTOR_DRIVER_PWMA D7
RIGHTSIDE_MOTOR_DRIVER_BIN1 D46
RIGHTSIDE_MOTOR_DRIVER_BIN2 D47
RIGHTSIDE_MOTOR_DRIVER_PWMB D6

ODOMETER_RIGHT_FRONT_PIN D3
ODOMETER_RIGHT_REAR_PIN D2
ODOMETER_LEFT_FRONT_PIN D19
ODOMETER_LEFT_REAR_PIN D18

HEAD_SERVO_BASE_PIN D9
HEAD_SERVO_ARM_PIN D10

ULTRASONIC_SENSOR_TRIG_PIN D11
ULTRASONIC_SENSOR_ECHO_PIN D12

KILL_SWITCH_PIN D51

Front Head Arm

Front Head Base

SERVO

SERVO

Left Front

Left Rear

Right Front

Right Rear

This sketch uses external battery for break beam sensors just to simplify connections. They can be powered from the connections in the breadboard as well

Left Front

Left Rear

Right Front

Right Rear

These are LM393 sensor that are used to represent the Break Beam optosensor. Output pin here is DO pin of the break beam sensor

fritzing