

# Physical Construction

MPU6050  
Accelerometer/Gyro  
scope (GY-521)



This side faces  
the front of robot

HC-05  
Bluetooth  
Module

11.1V 3S  
LiPo  
Battery

dsPIC33EP256MU806  
Board

Right  
Wheel

2x RepRap  
StepStick  
Stepper Motor  
Drivers (A4988)

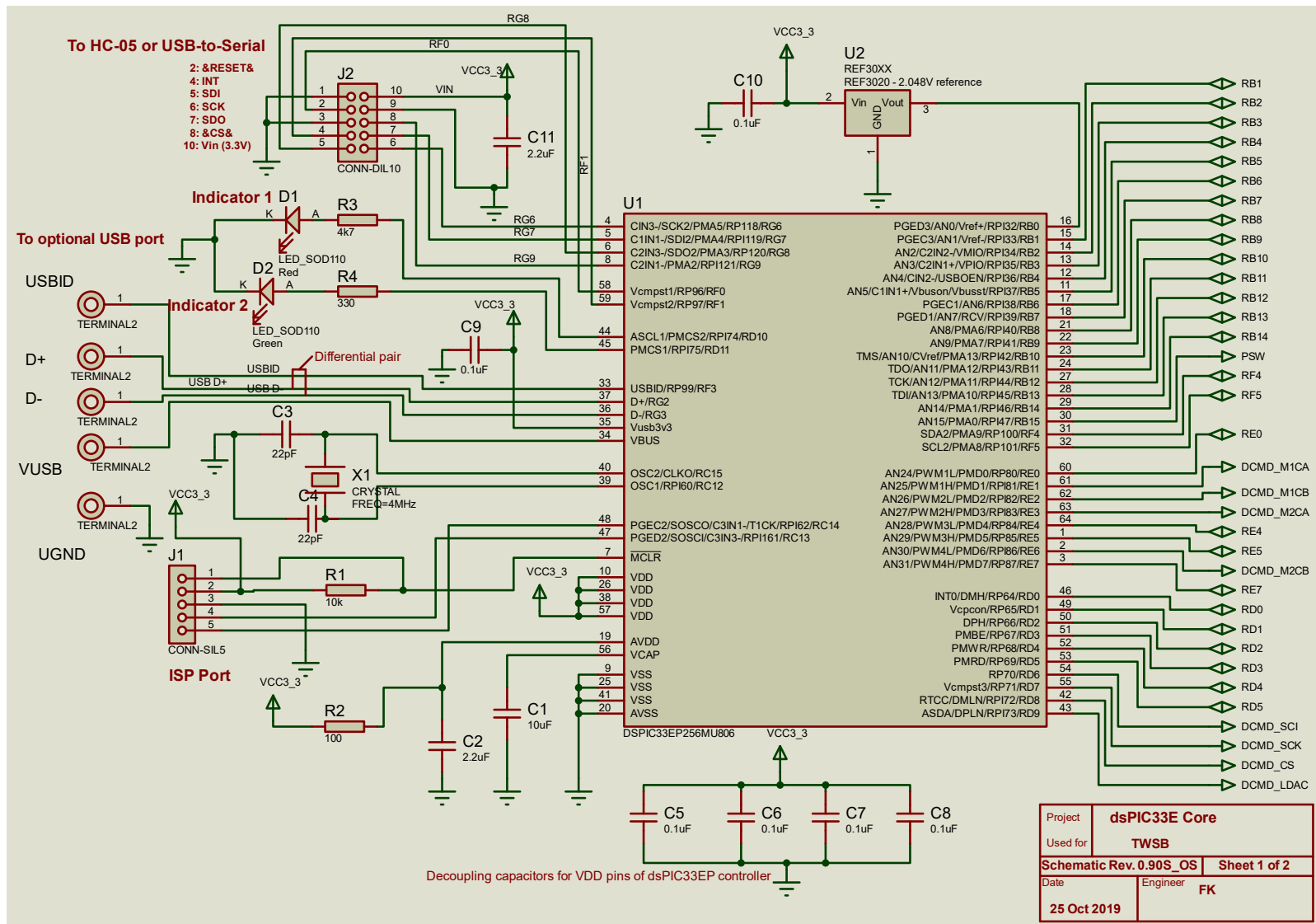
Left  
Wheel

2x NEMA 17  
Stepper Motor

**FRONT VIEW**

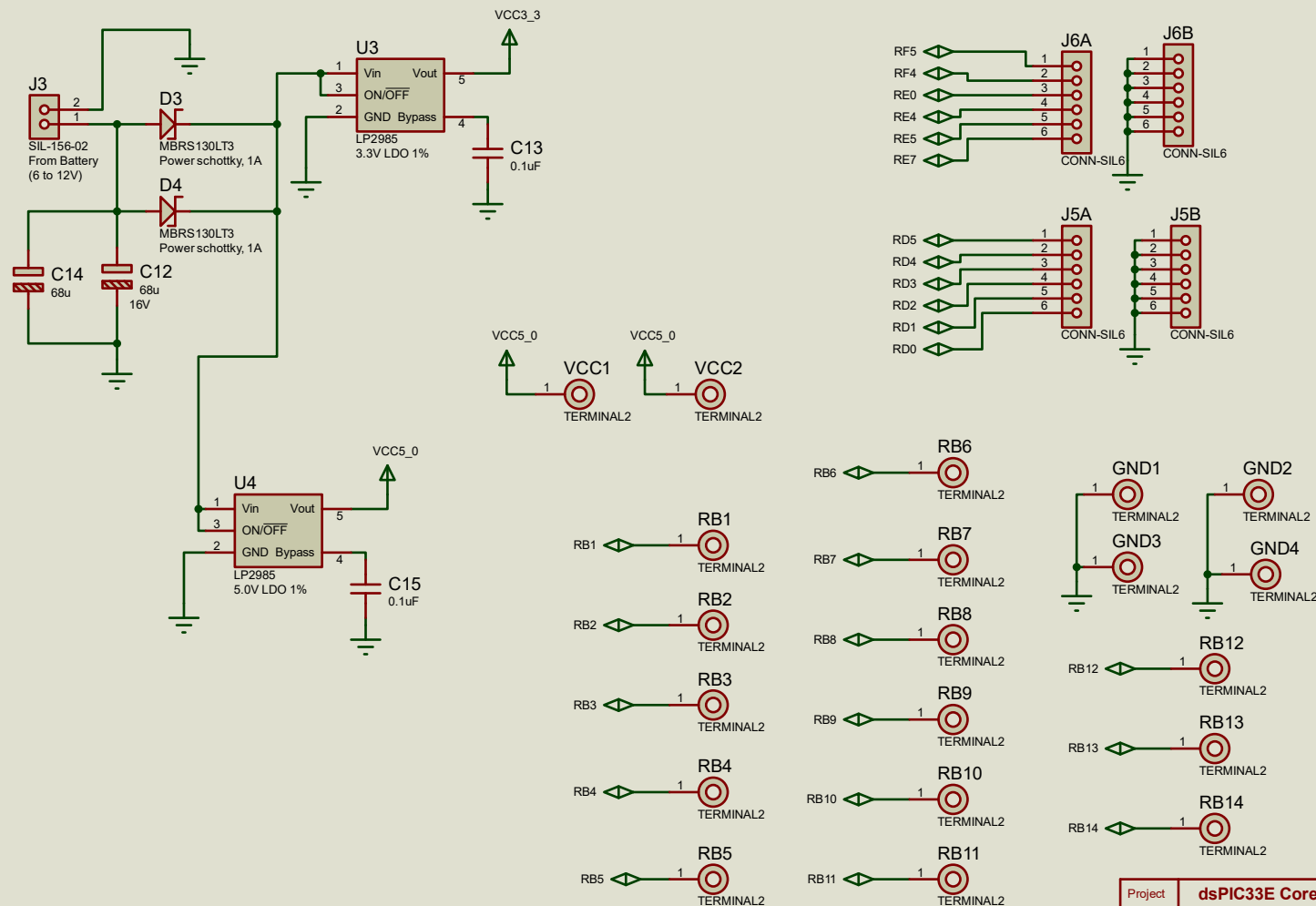
**BACK VIEW**

# dsPIC33EP256MU806 Board (1)



Project	dsPIC33E Core		
Used for	TWSB		
Schematic Rev.	0.90S_OS	Sheet 1 of 2	2
Date	25 Oct 2019	Engineer	FK

# dsPIC33EP256MU806 Board (2)



Project	dsPIC33E Core		
Used for	TWSB		
Schematic Rev. 0.90S_OS		Sheet 2 of 2	
Date	25 Oct 2019	Engineer	FK



# Building the Firmware with MPLAB-X IDE

