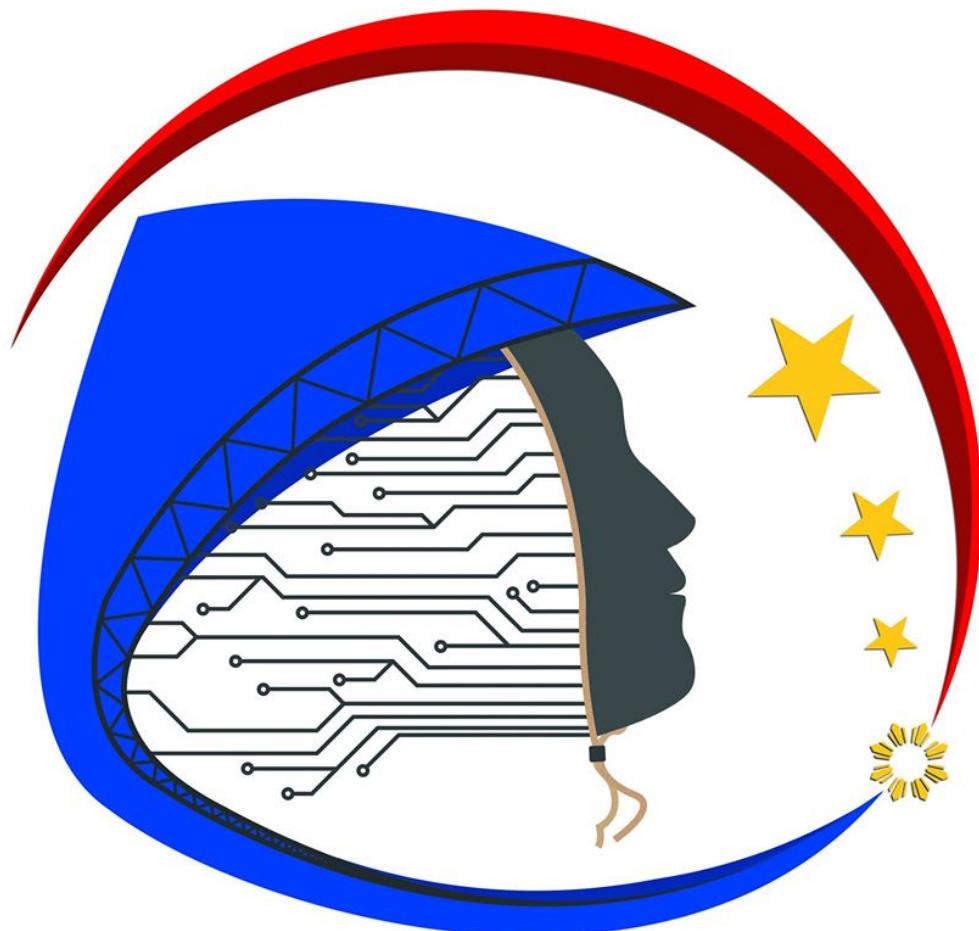
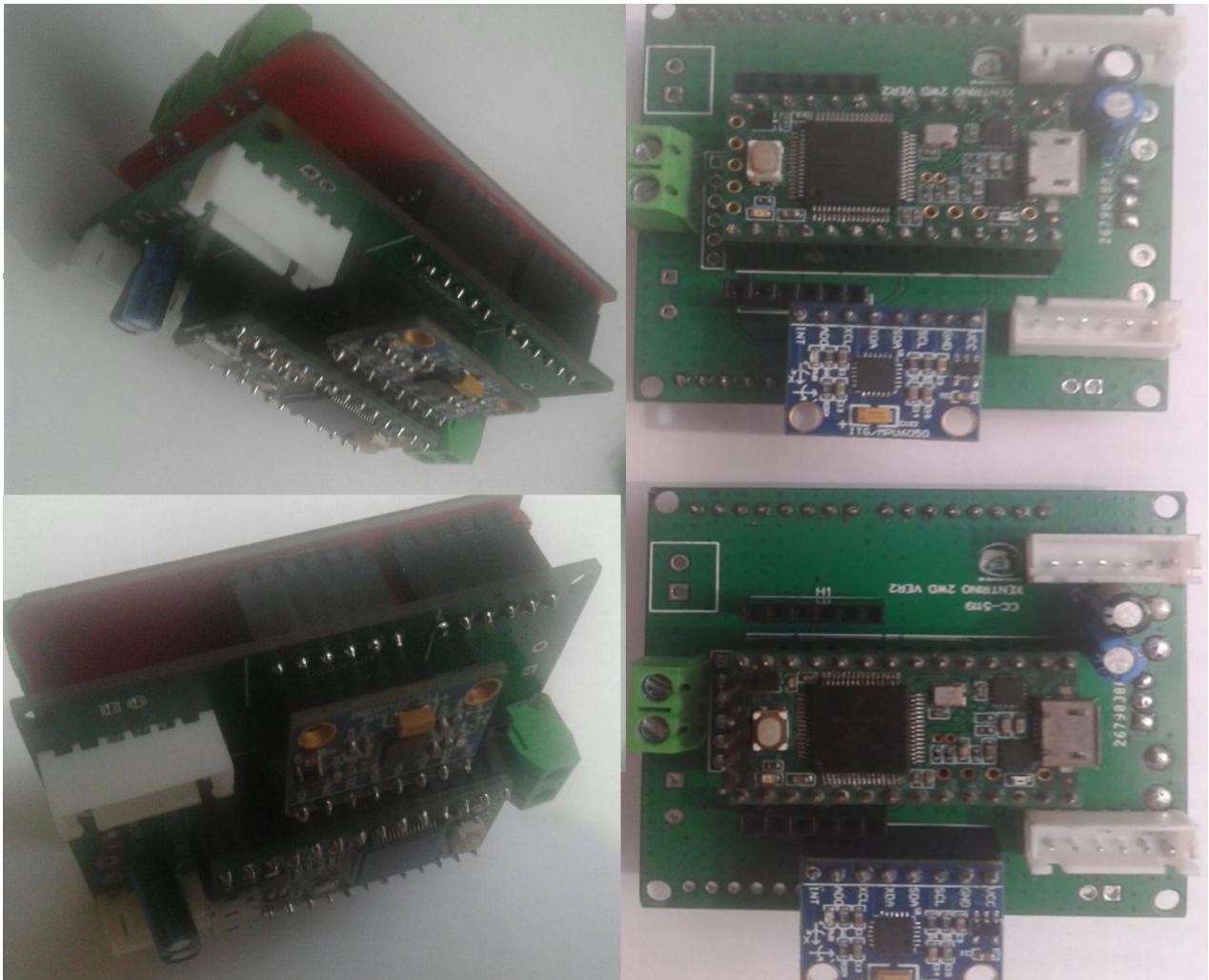


XENTRINOBOT BOARDS  
2 WD Version



# Hi-Techno Barrio

Distributed by:  
[Xentrino Tech](#)



### **DESCRIPTIONS:**

Xenrtrinobot Board is suitably design to drive wheeled mobile robots. The board contains a complete electronic modules that can be used to program and drive robots. The 2WD version include microcontroller, inertial measurement unit sensors (IMU) and motor controller. There are extra IOs ports grouped in header pins which can be used as external interface, i,e LCD,LDR, relays and etc.

The board was developed as an all in one electronic, the reason is to focus solely in automating robots and avoiding the difficulty of building messy circuits. Hence, the developer vision is to motivate hobbyists, enthusiast and more likely in the academe, research and development sectors to be involved in the application of Robotic Operating System.

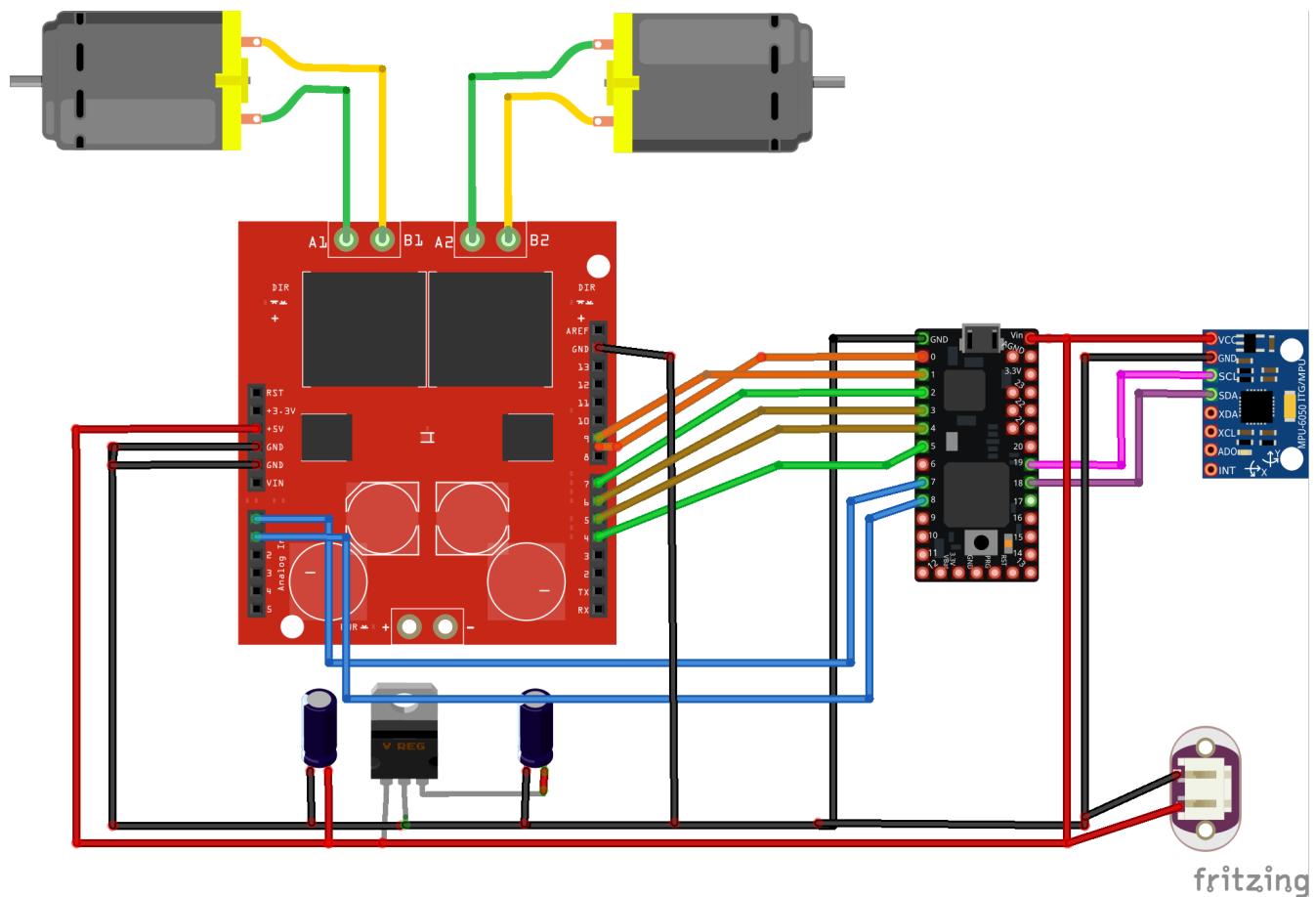
The board define the means of simplifying robot controller to eliminate time consuming hardware setup experienced by building robots using ROS. Also the selected electronic modules are readily and locally available and the selected hardware is cost effective.

## FEATURES:

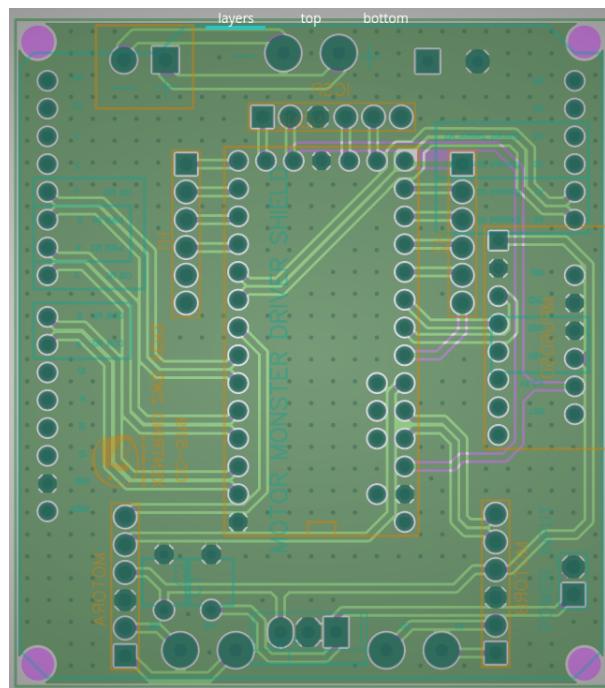
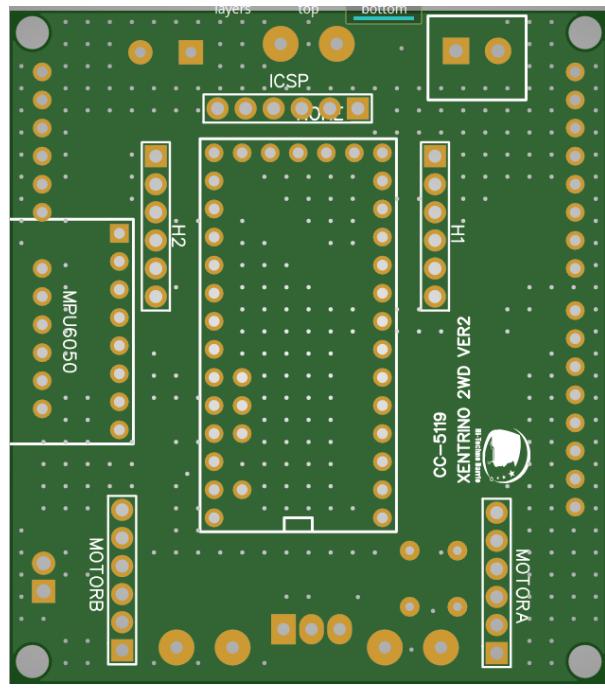
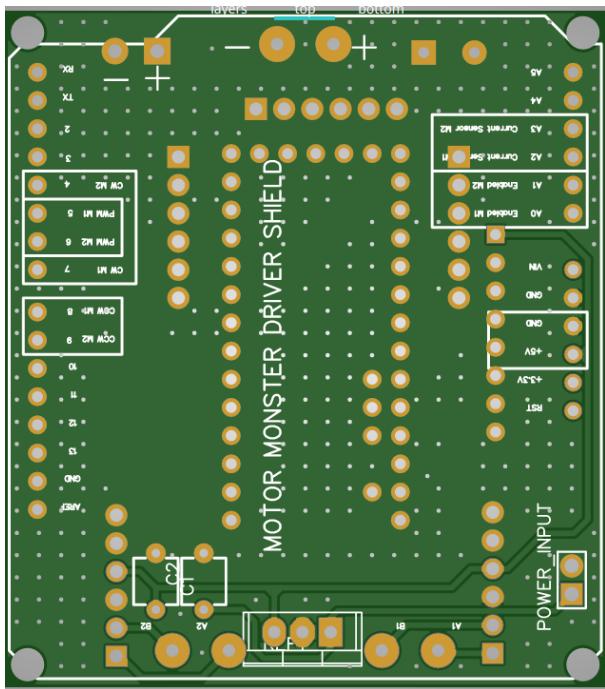
- Teensy 3.20
  - Monster Moto Shield
  - MPU6050/GY-85

## **DOCUMENTATIONS:**

## Schematic

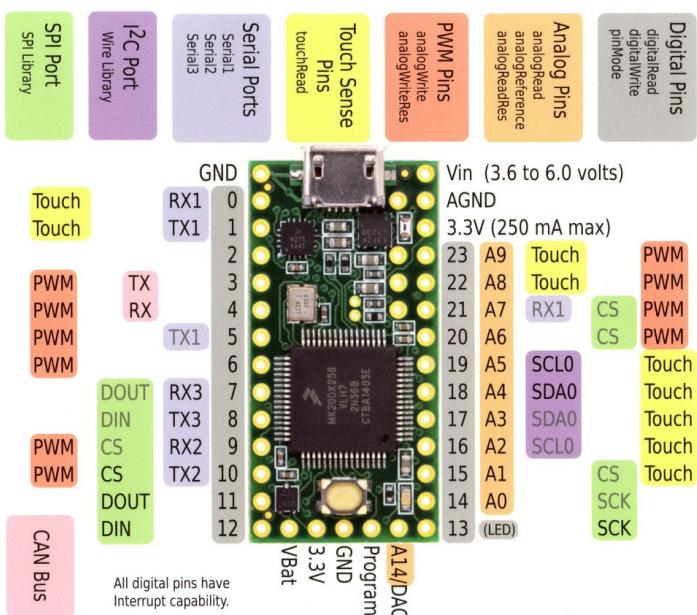


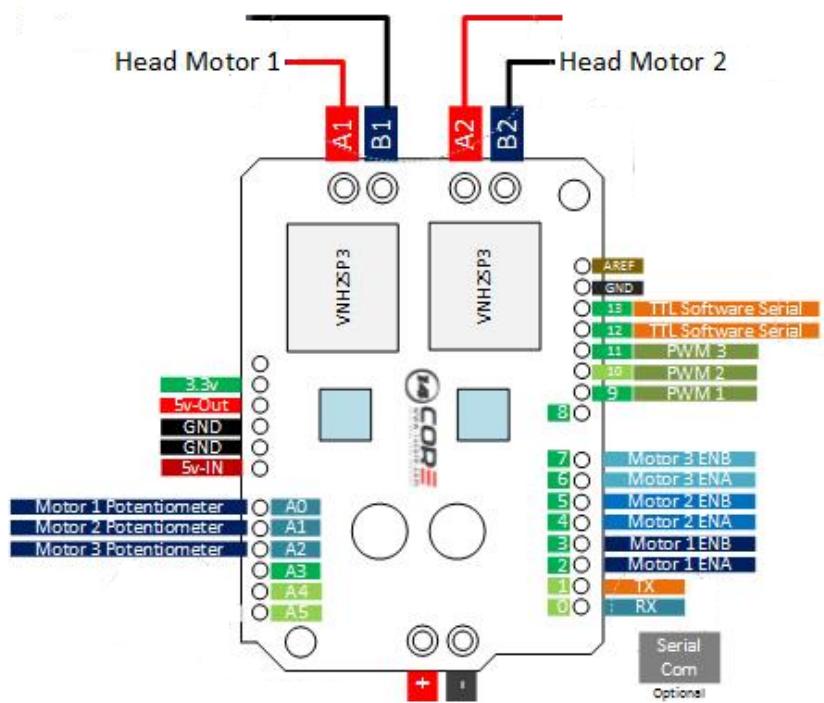
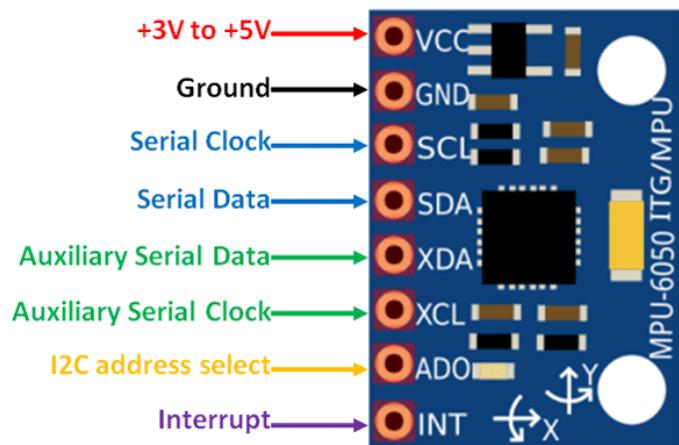
## Gerber Block Diagram



## Graphical Datasheet

library	Pin	description	ENC1	ENC2	DUAL-S	MPU6050	Header-1
3.20		GND	GND				
	RESET						
	D0						
	D1						
	D2		P_1				
	D3		P_2				
	D4		P%				
	D5	ENC1					
	D6	ENC2					
	D7		ENC3				
	D8		ENC4				
	D9		DA				
	D10		SCA				
	D20		SDA				
	D10		1B				
	D11		2A				
	D12		2B				
	D13				1		
	A0				2		
	A1				3		
	A2				4		
	A3				5		
	A4				6		
	A5						
	3V3						
	AREF						
	GND						
	VIN						
MOTOR1			M1				
			M2				
MOTOR2			M3				
			M4				





## Datasheet

Monster Moto  
MPU6050  
Teensy 3.20

GitHub:  
<https://github.com/hi-techno-barrio/XentrinoBot-BOARD>

## APPLICATION SETUP

