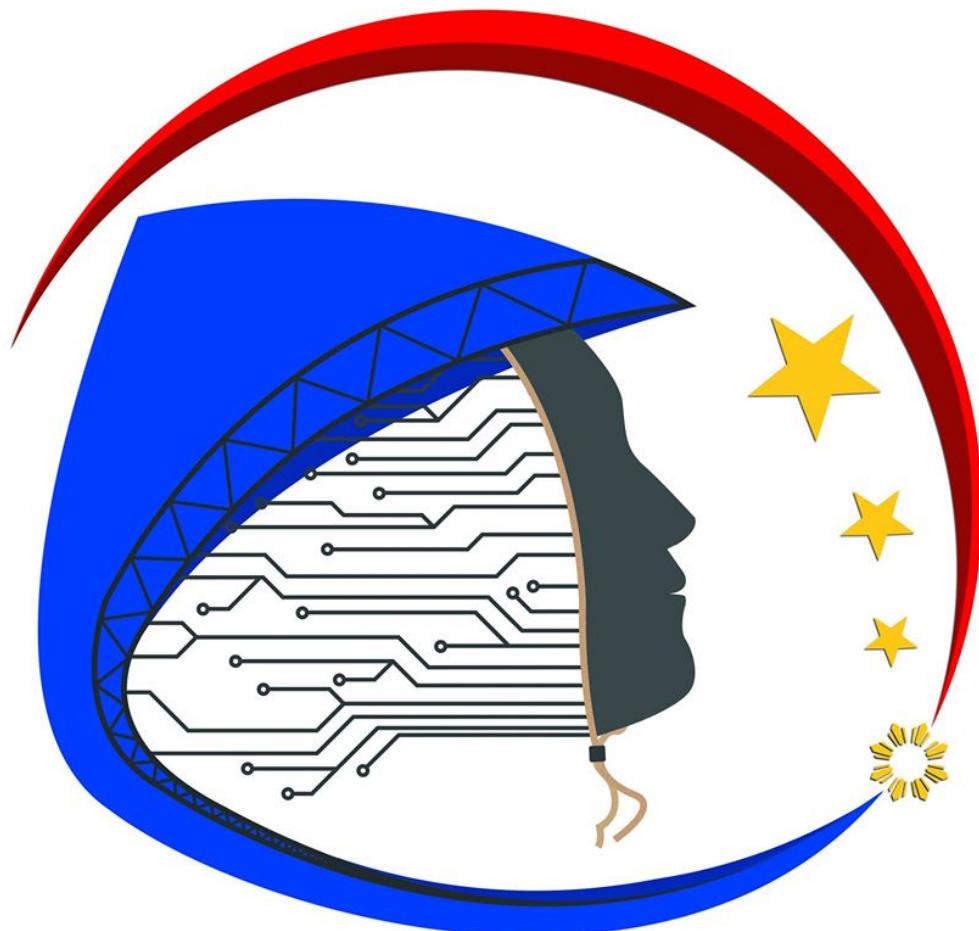
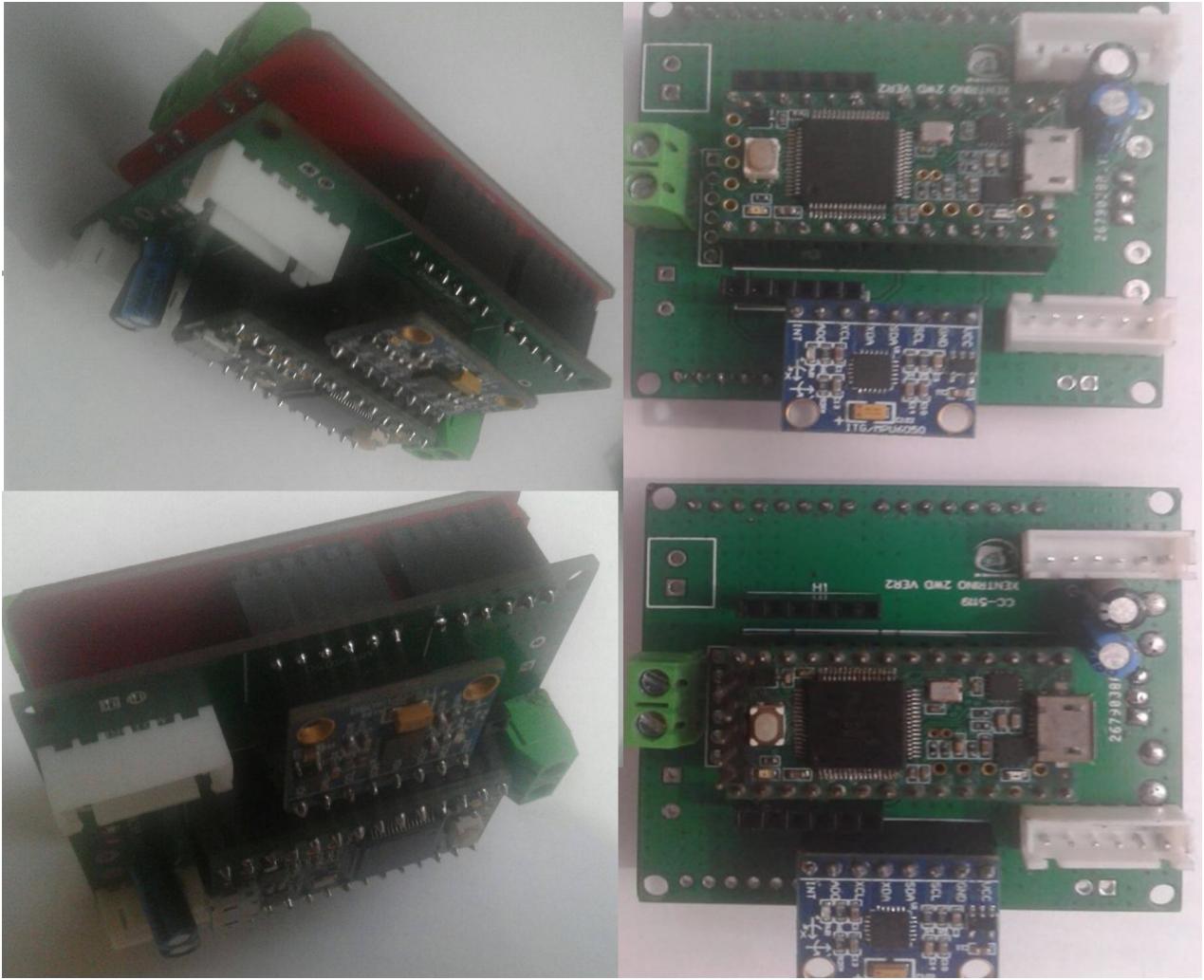


XENTRINOBOT BOARDS
2 WD Version



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.

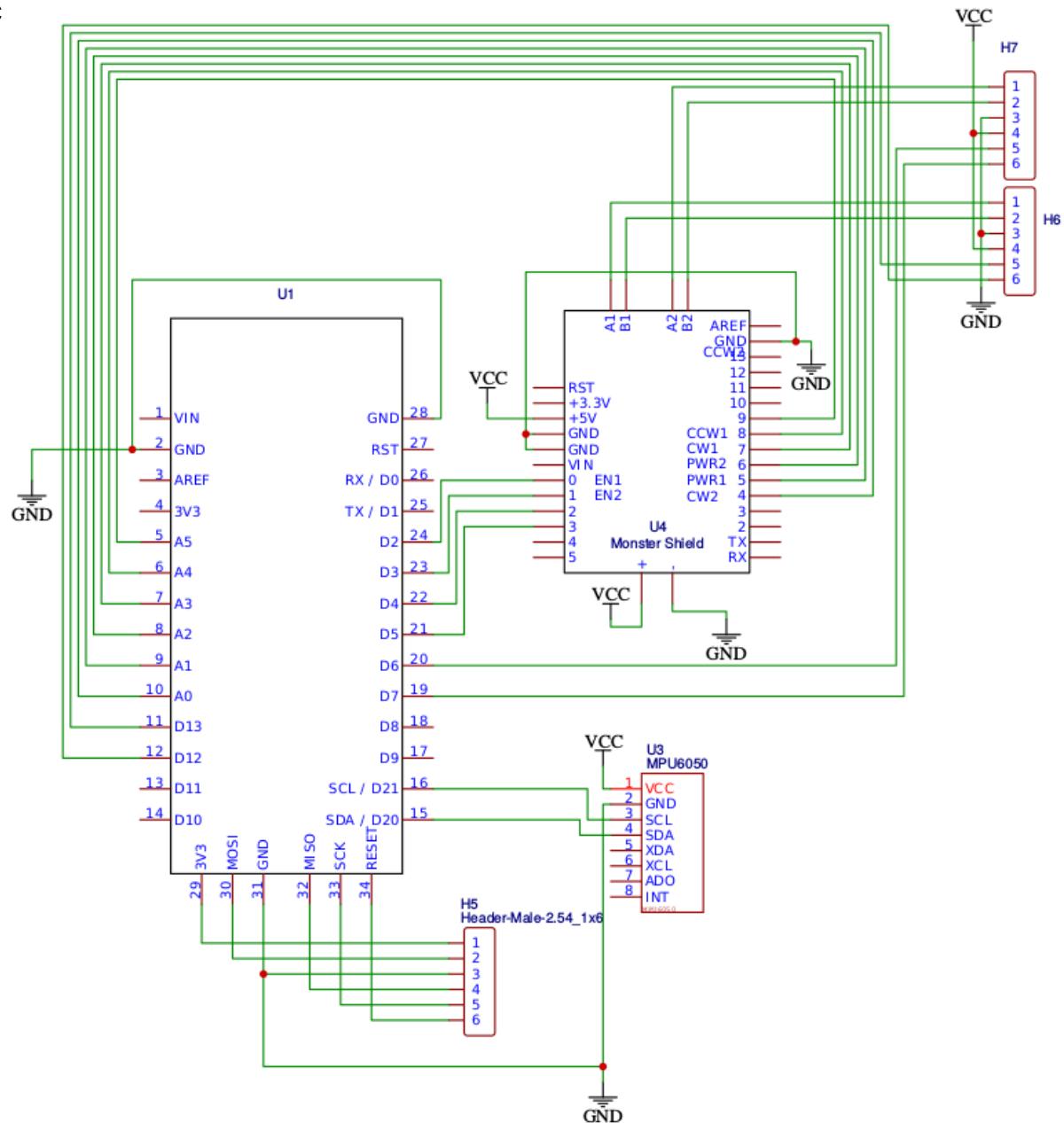
The board define the means of simplifying robot controller to eliminate time consuming hardware setup experienced by building robots using ROS. Also the selected electronic modules are readily and locally available and the selected hardware is cost effective.

FEATURES:

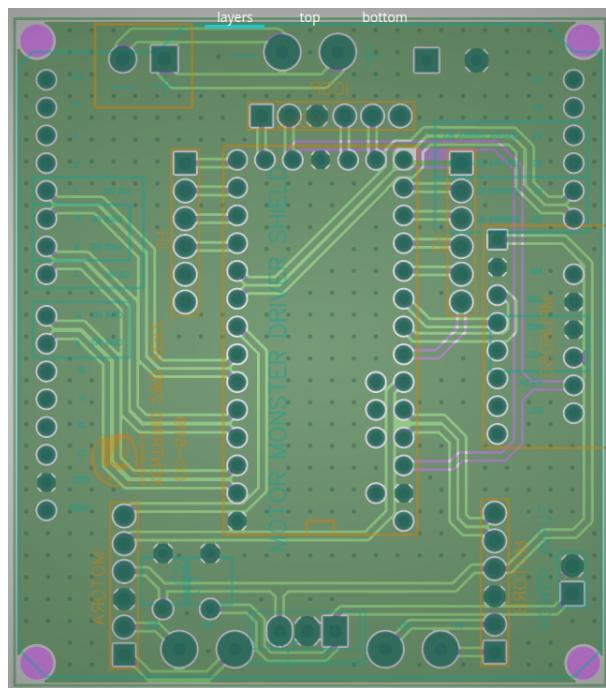
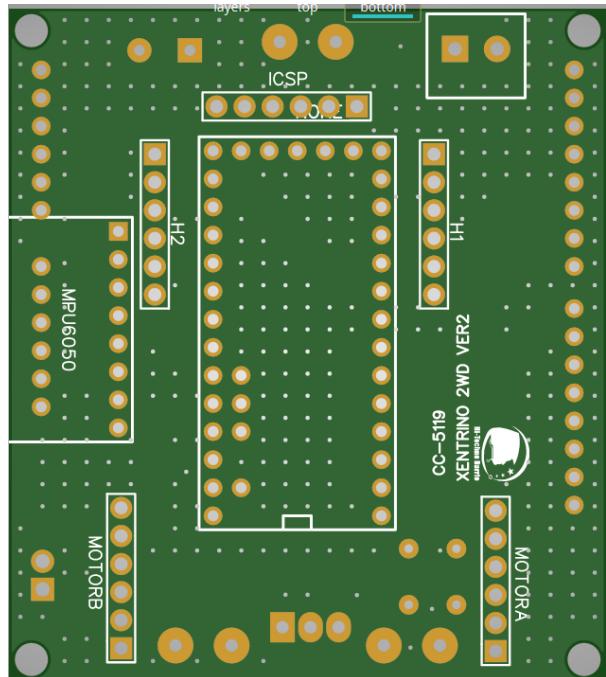
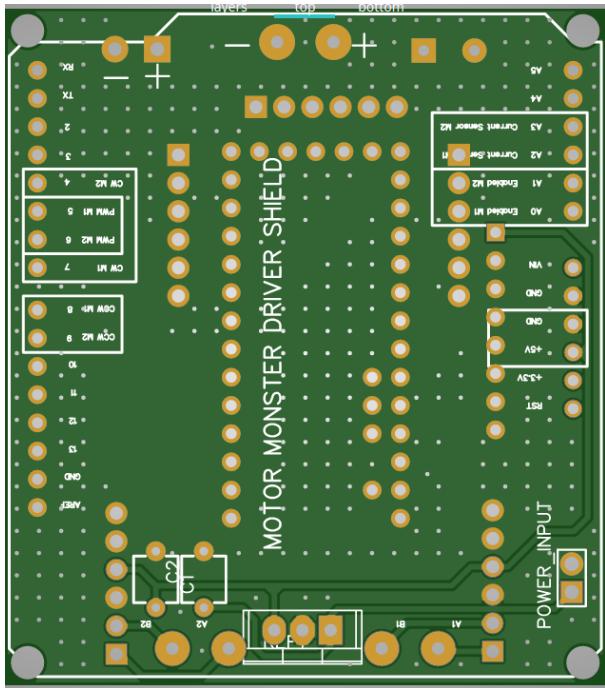
- Teensy 3.20
- Monster Moto Shield
- MPU6050/GY-85

DOCUMENTATIONS:

Schematic

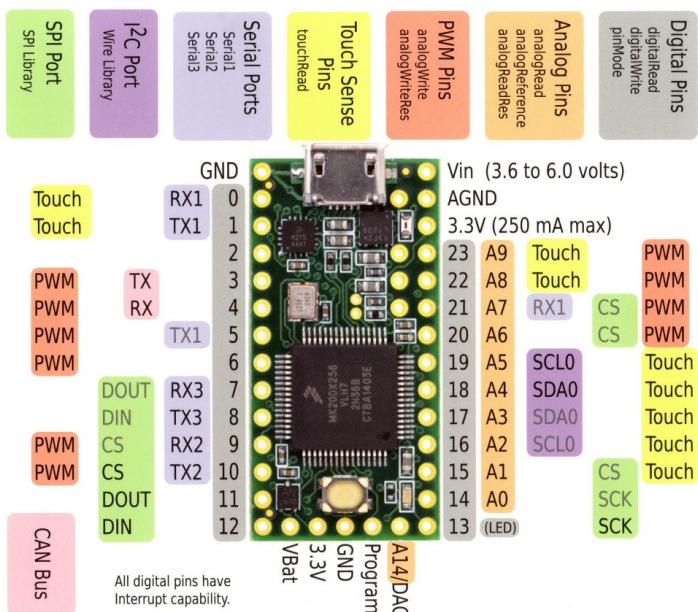
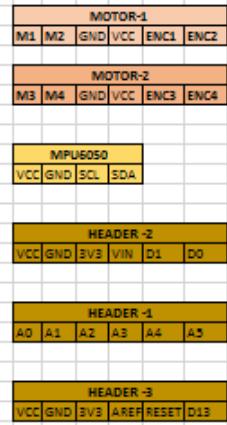


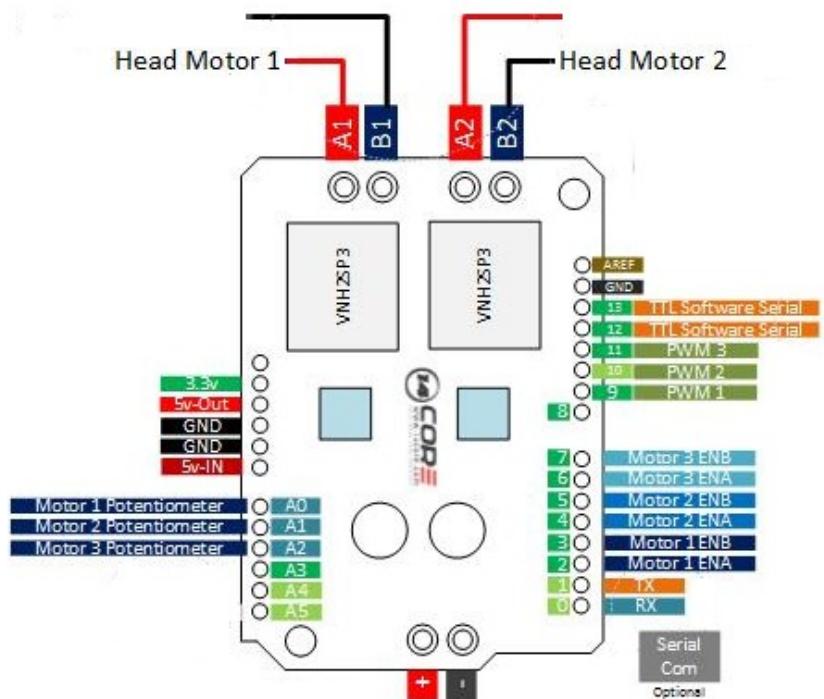
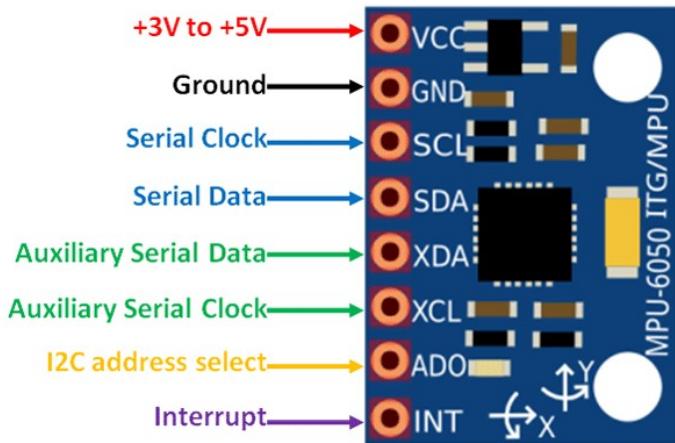
Gerber Block Diagram



Graphical Datasheet

Pin	Pin Description	ENC1	ENC2	DUAL -1	MPU6050	Header-1
GND	GND					
RESET						
DD						
D1						
D2			P_1			
D3			P_2			
D4			EN			
D5	ENC1					
D6	ENC2					
D7		ENC3				
D8		ENC4				
D9			1A			
D10				SCA		
D11				SDA		
D12			1B			
D13				2A		
A0					1	
A1					2	
A2					3	
A3					4	
A4					5	
A5					6	
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

