# PCB Config

Board Parameter M3 Mounting Hole with Via

H1 MountingHole MountingHole H2
MountingHole
H4
MountingHole Board Size: 100 mm x 79 mm

BoardDimension1 H(90,76) Manufacturering Config

Base Material: FR4 Board Layer: 2 Board Thickness: 1.6 mm PCB Color: Black would be great Silkscreen: White Surface Finish: Lead Free HASL-RoHS

Outer Copper Weight: 1oz

Stencil Config

Framework: No

Customized size: 150 mm x 110 mm

Stencil Side: Top Stencil Qty: 1 Electropolishing: No Fiducials: No Fiducial

## Board Detail

	Structure		Power Supply		1/0	
	Sheet: Power Rail	Sheet: MCU	Battery	+5V DCDC	+12V Rail	+5V Rail
GND (	D+VBAT R_FLAG V_current_senseD  BAT_LEVELD	D+5V DA2 DA3 GMOT_SW,D7	Tpye: LiFePO4 battery, 12A 10Ah Supply Voltage Range: 14.4 V to 11 V C-Rate: 20		Battery Input Jetson Xavier NX Motor Driver	Network Switch Jetson Nano
	MOT_SW,D7				ADC	Interfaces
	File: power.sch	File: MCU.sch			Battery Level Sys Current Monitor	I2C SPI
						SBUS Connector Servo Connector
					Motor Supply EN	Motor Connector IMU Footprint

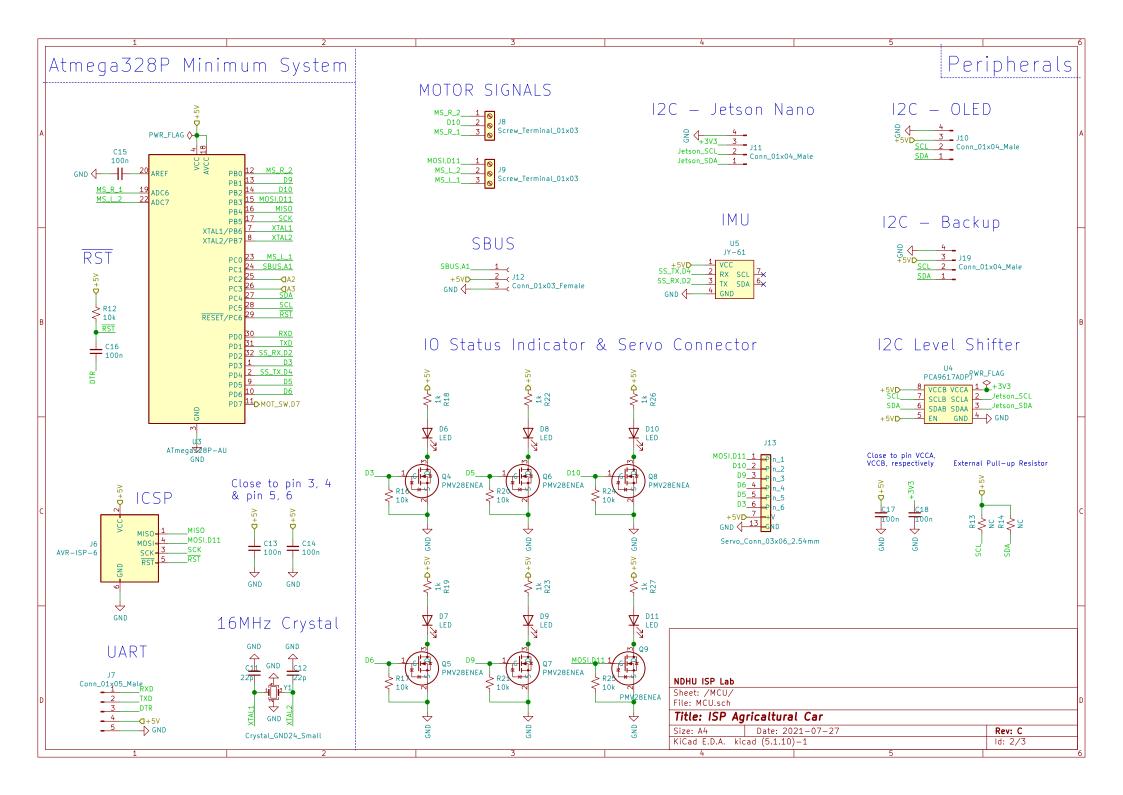
NDHU ISP Lab

Sheet: /

File: agricultural\_car.sch

Title: ISP Agricaltural Car

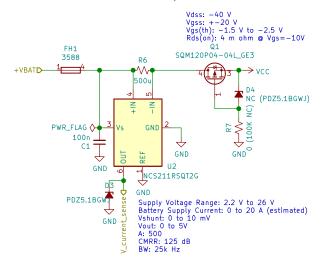
Size: A4 Date: 2021-07-27 Rev: C KiCad E.D.A. kicad (5.1.10)-1 ld: 1/3



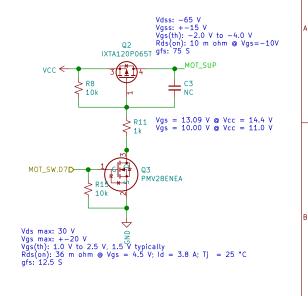
#### Power Supply Related

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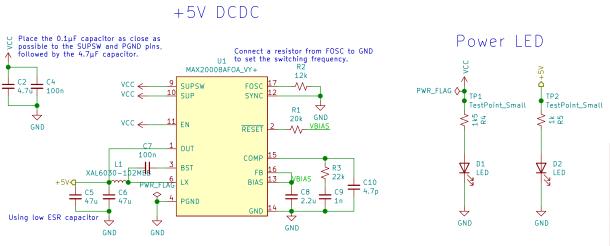
### Fuse, Current Sensing & Reverse Polarity Protection

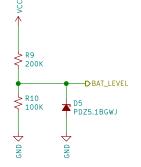


#### Load Switch for Motor Supply



#### Battery Level measurement





NDHU ISP La	ab				
Sheet: /Power Rail/ File: power.sch					
Title: ISP	Agricaltural Car				
Size: A4	Date: 2021-07-27	Rev: C			

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