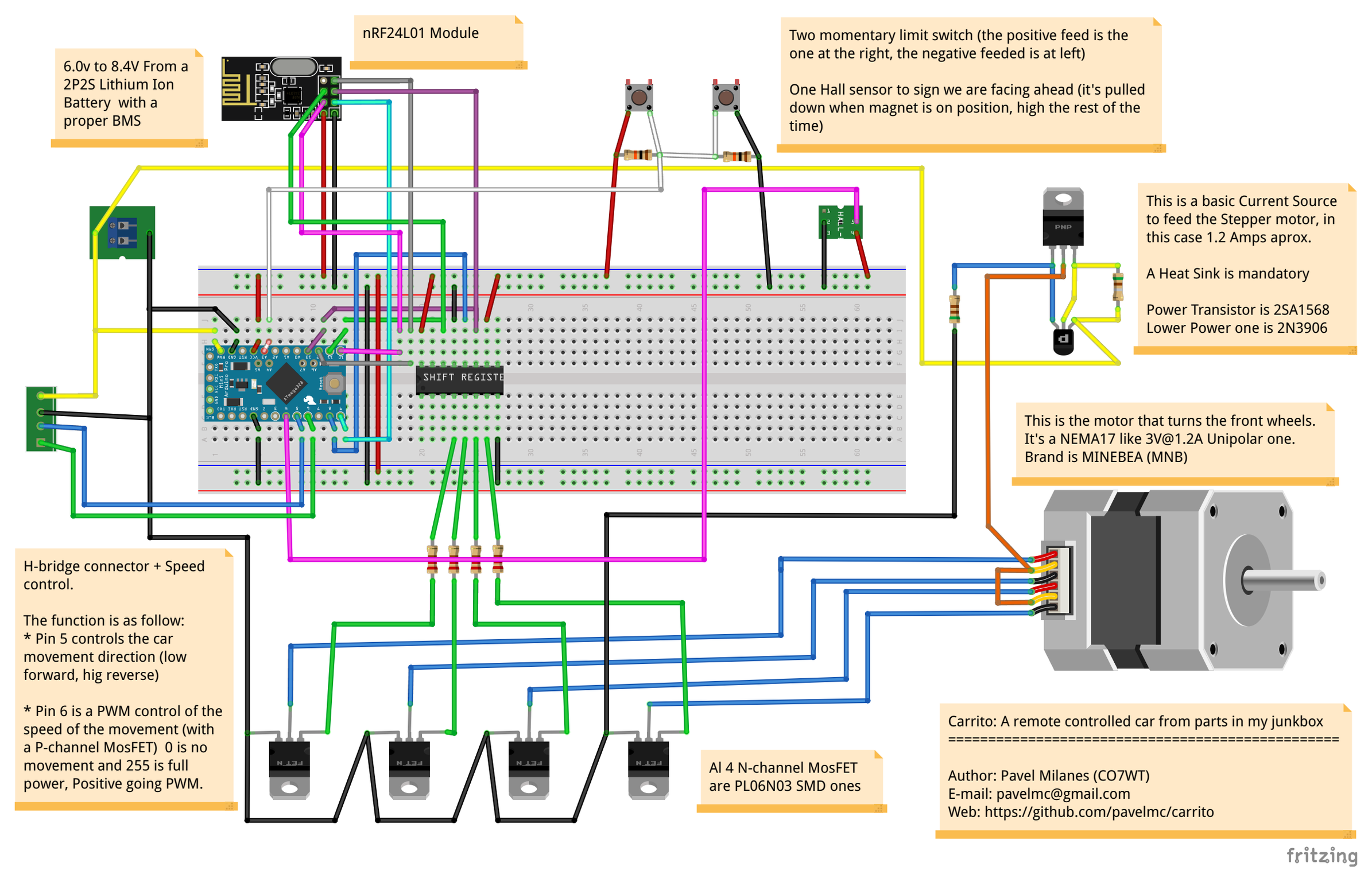
6.0v to 8.4V From a 2P2S Lithium Ion Battery with a proper BMS
nRF24L01 Module
Two momentary limit switch (the positive feed is the one at the right, the negative feeded is at left)
One Hall sensor to sign we are facing ahead (it's pulled down when magnet is on position, high the rest of the time)
This is a basic Current Source to feed the Stepper motor, in this case 1.2 Amps aprox.
A Heat Sink is mandatory
Power Transistor is 2SA1568
Lower Power one is 2N3906
This is the motor that turns the front wheels. It's a NEMA17 like 3V@1.2A Unipolar one. Brand is MINEBEA (MNB)
H-bridge connector + Speed control.
The function is as follow:
* Pin 5 controls the car movement direction (low forward, hig reverse)
* Pin 6 is a PWM control of the speed of the movement (with a P-channel MosFET) 0 is no movement and 255 is full power, Positive going PWM.
Al 4 N-channel MosFET are PL06N03 SMD ones
Carrito: A remote controlled car from parts in my junkbox
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Author: Pavel Milanes (CO7WT)
E-mail: pavelmc@gmail.com
Web: https://github.com/pavelmc/carrito
SHIFT REGISTE
PNP
HALL
FET N
fritzing