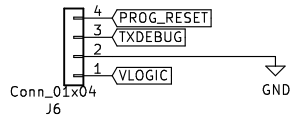


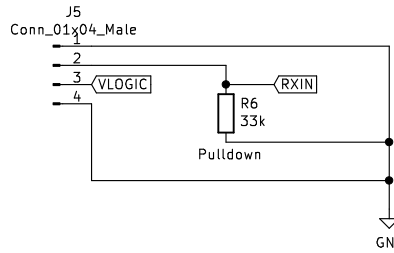
Tiny DC electronic speed controller For e.g. Antweight combat robots

Programming interface

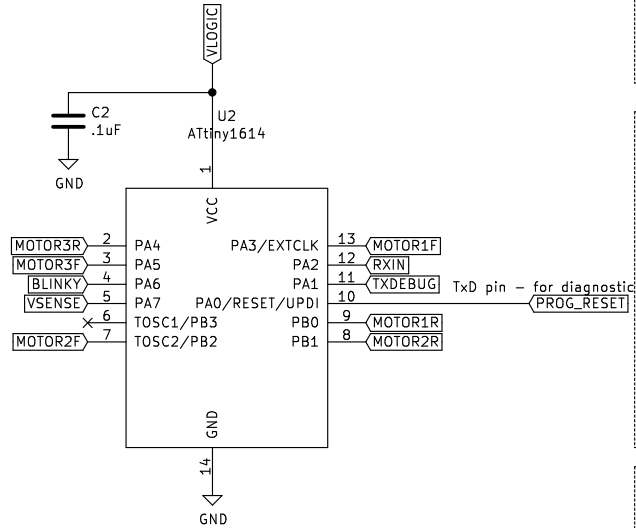
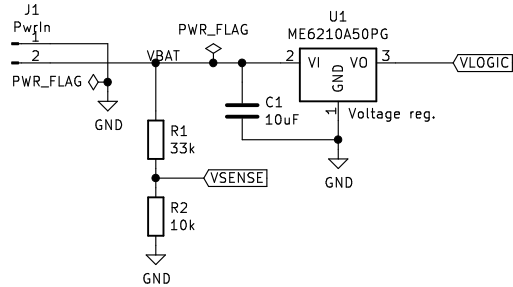


Receiver interface RX

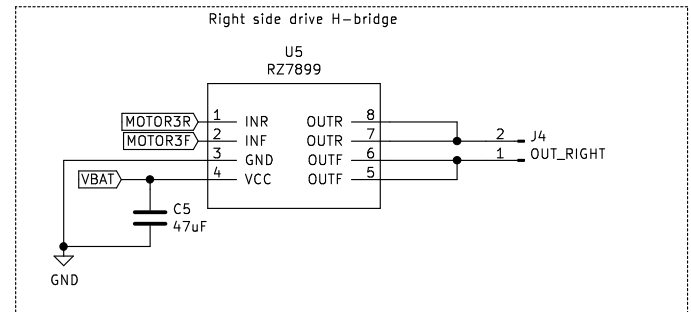
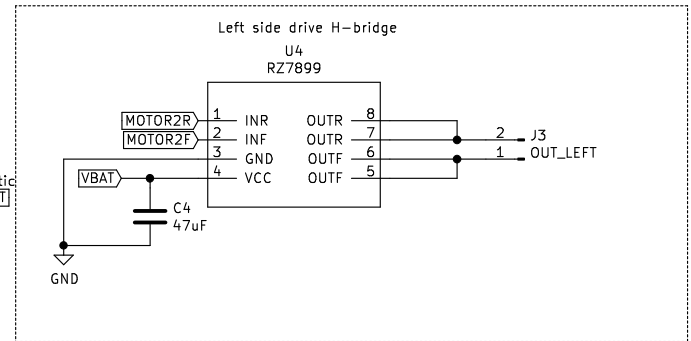
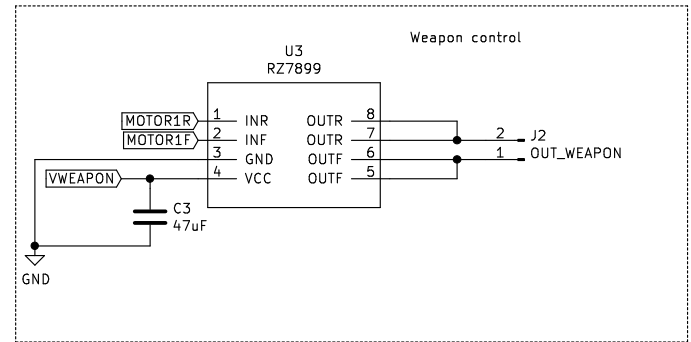
RX interface will be for a CPM type of single wire pulses, or similar. It might be auto detected at runtime or need to be set in firmware.



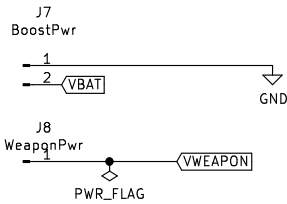
Power in- Battery voltage from 6-14v is permitted, to allow usage of a 2S or 3S lipo pack, or some other type which provides at least 6V



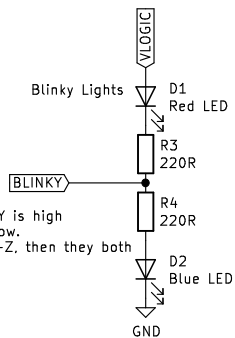
Note: Not all pins can do hardware PWM. Using TCA1 in split mode we can get up to 6 channels hardware PWM but most of them are on a fixed pin



Weapon power could come from VBAT via a simple wire, or have an additional Lipo cell for more volts, or some other power source e.g. a voltage boost module.
Weapon power boost



- MH1 MountingHole
- MH2 MountingHole



D2 lights when BLINKY is high
D1 when BLINKY is low.
If BLINKY is set high-Z, then they both light very dimly

@markxr
markxr@gmail.com

DC Electronic speed controller for small combat robot

Mark Robson

Sheet: /
File: malenki.sch

Title: Malenki ESC

Size: A4 Date: 2019-03-05

KiCad E.D.A. kicad (5.0.2)-1

Rev:
Id: 1/1