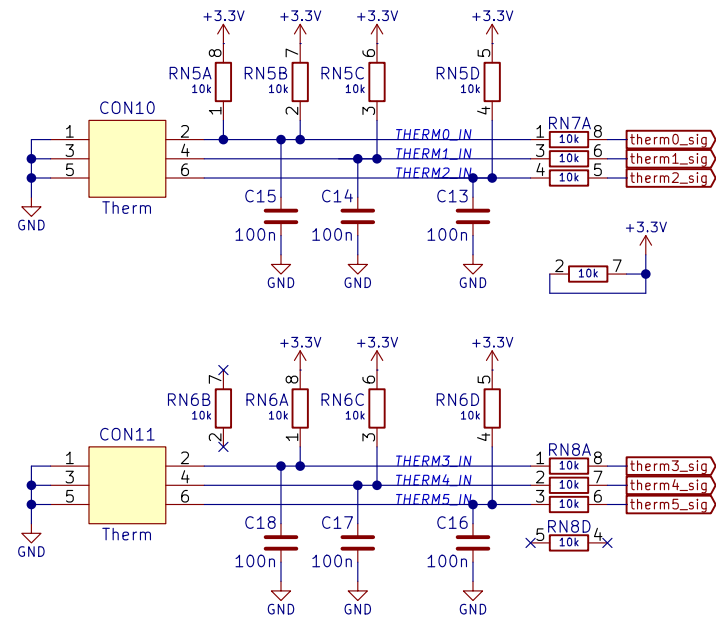


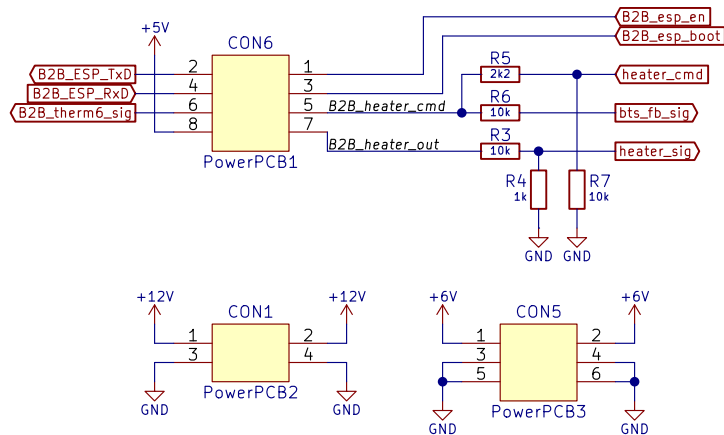
External thermistor inputs

Thermistor 0 is for higher temperature – for heater and have lower pullup resistance.
Other are for servos and BEC



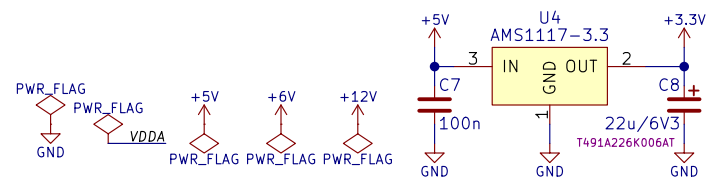
Power PCB connectors

6V power is for servos
5V for OLED and LDO
12V for external outputs

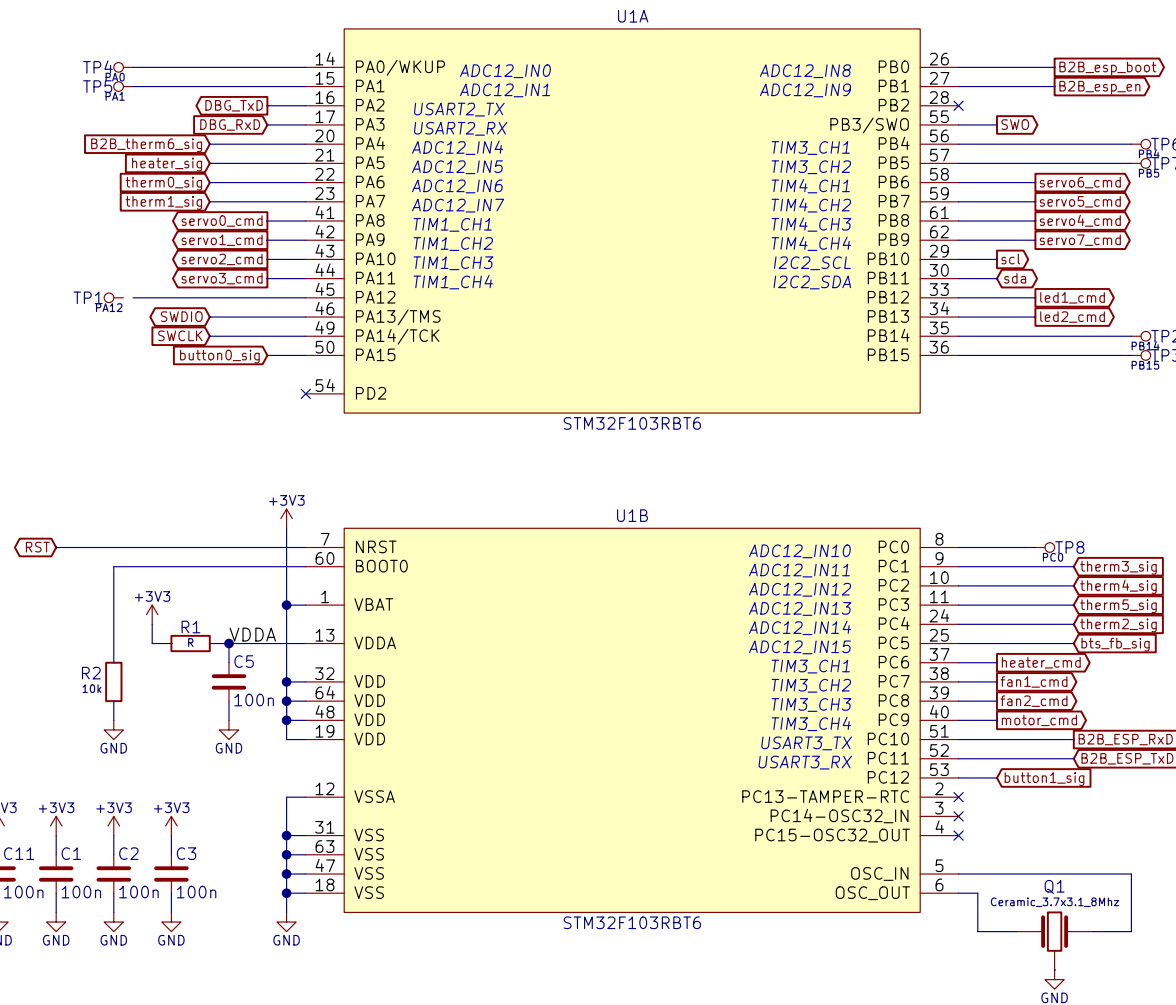


3V3 LDO regulator

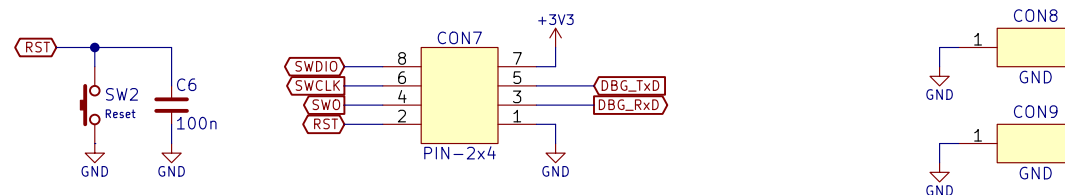
For uC only



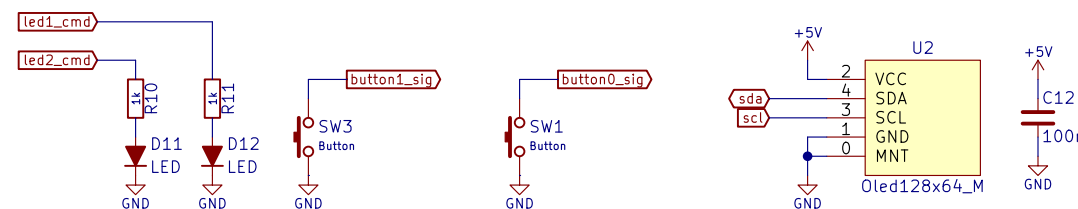
STM32 microcontroller



Programming/debug connector and reset switch

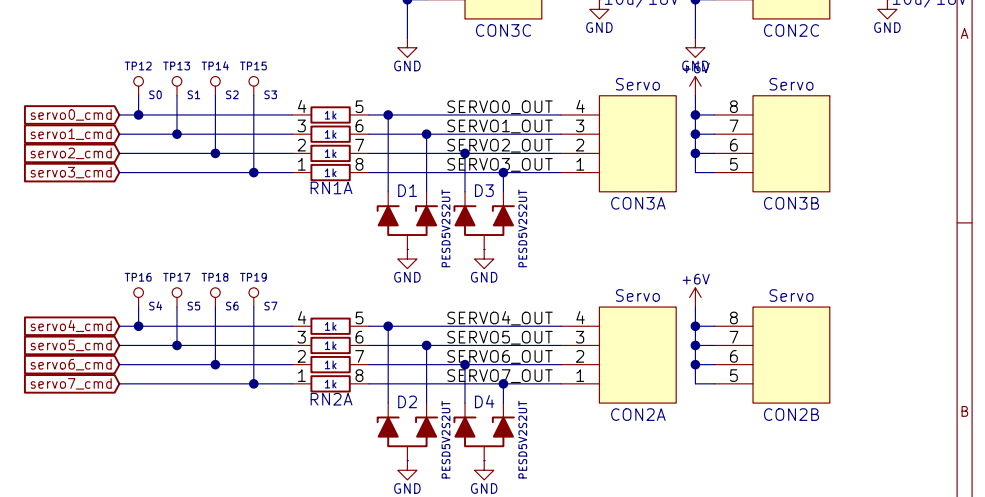


User interaction



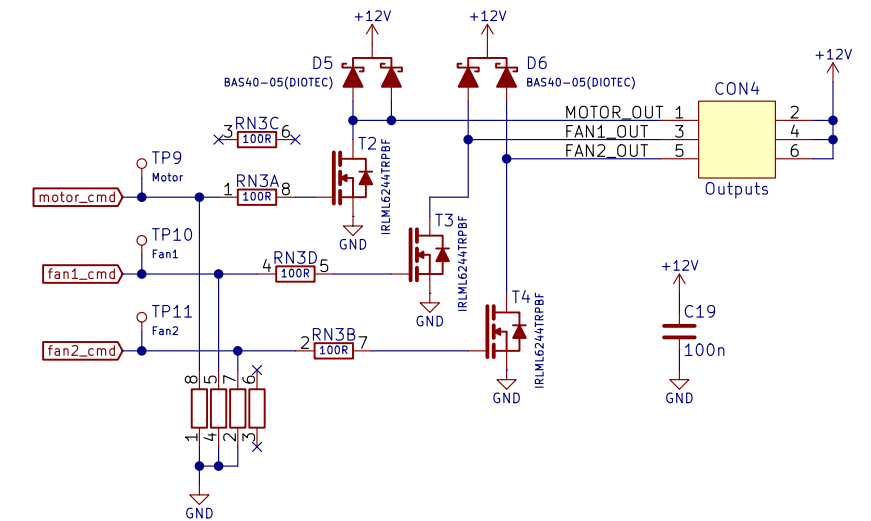
Servo connectors

Servos powered from external BEC regulator

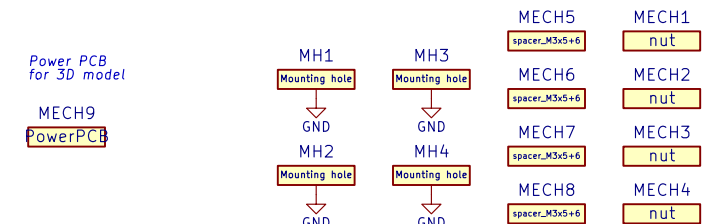


Medium power outputs

motor_cmd and two fans



Mechanical parts and Power PCB



Naming convention:
- small_letters (_cmd, _sig) – board level signals
- (out/in from uC)
- BIG LETTERS (_OUT, _IN) – connections to outside world
- B2B_signals – connections to second board

NiceCircuits		
Sheet: /		
File: drOctopusControl.sch		
Title: Wi-Fi Servo Controller		
Size: A3	Date: 2016-01-24	Rev: 2.0
KiCad E.D.A. kicad 4.0.0-rc1-stable		Id: 1/1