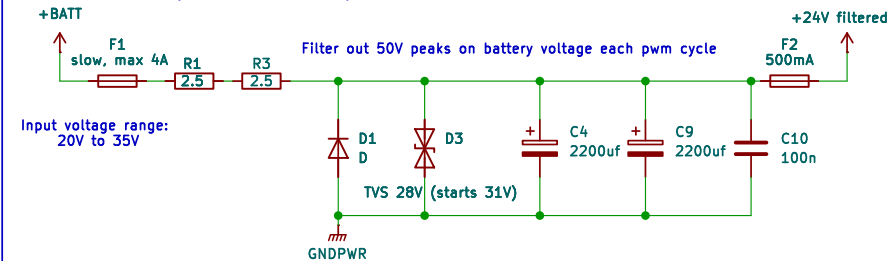
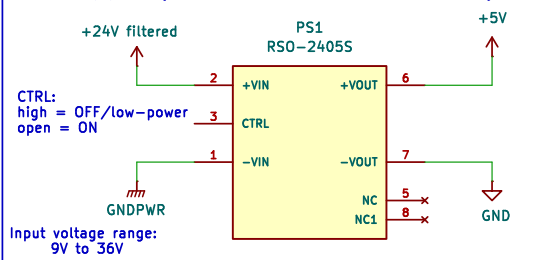


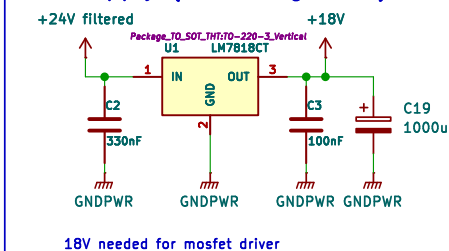
24V Supply (voltage filter)



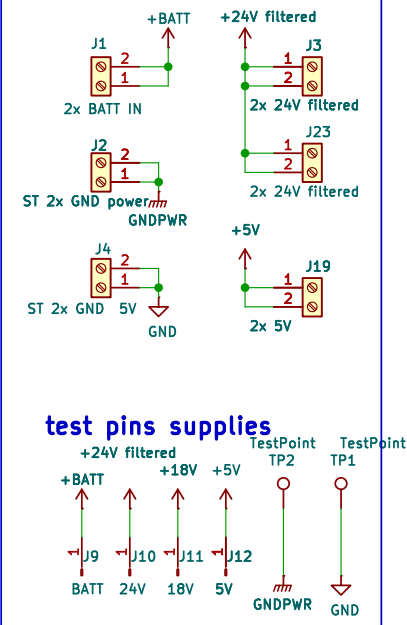
5V Supply (isolated dc-dc converter)



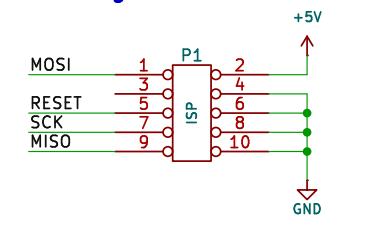
18V Supply (linear regulator)



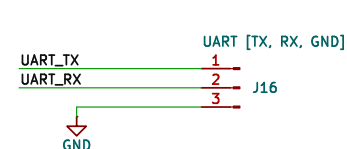
Power Terminals



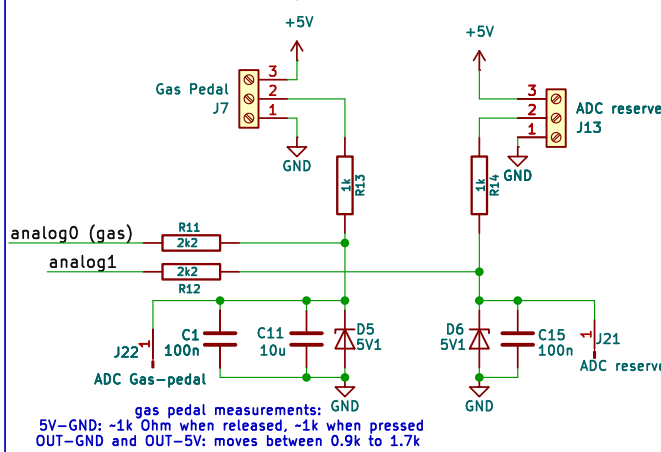
ISP Programmer connector



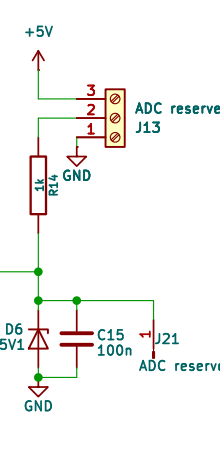
UART connector



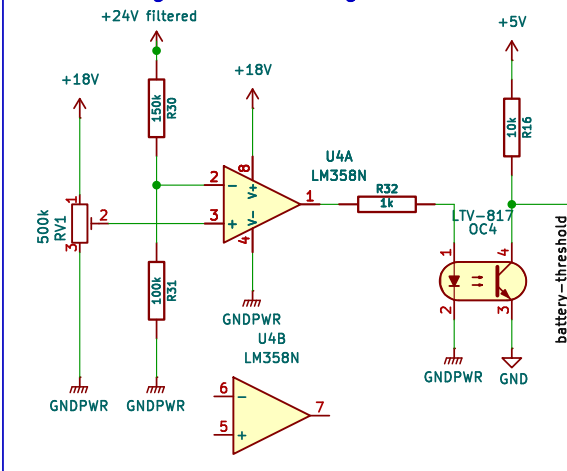
ADC Gas pedal



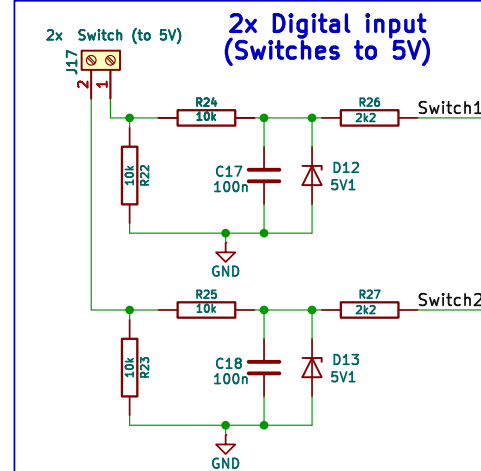
ADC Reserve



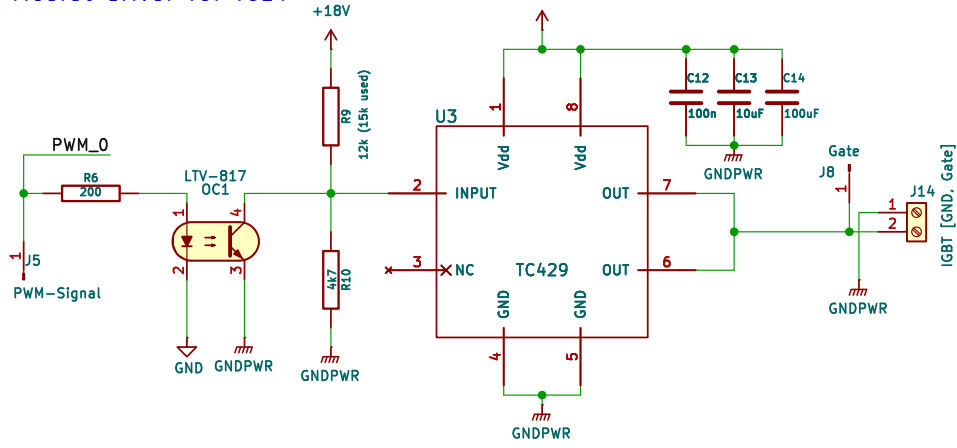
Batt-voltage threshold signal



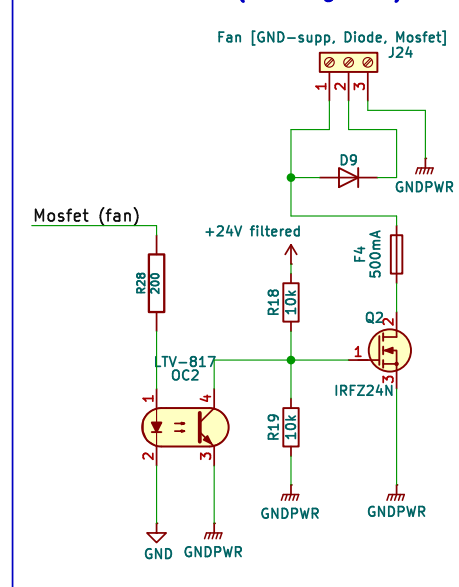
2x Digital input (Switches to 5V)



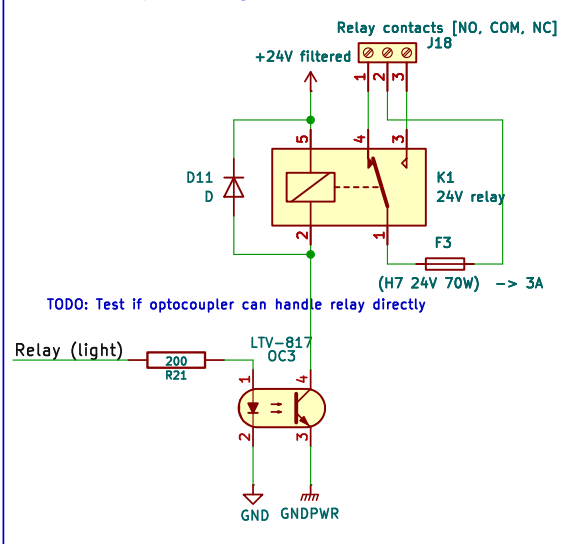
Mosfet driver for IGBT



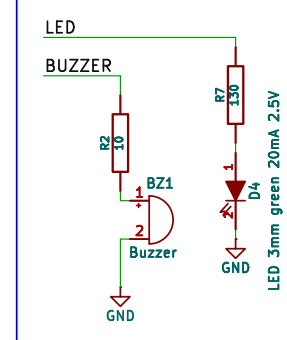
Mosfet out (cooling Fan)



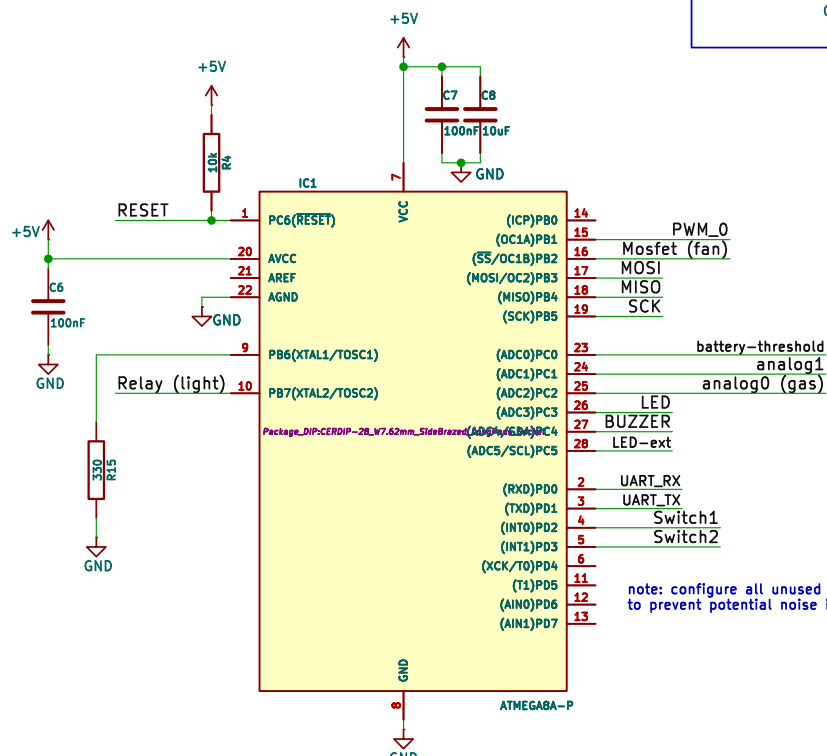
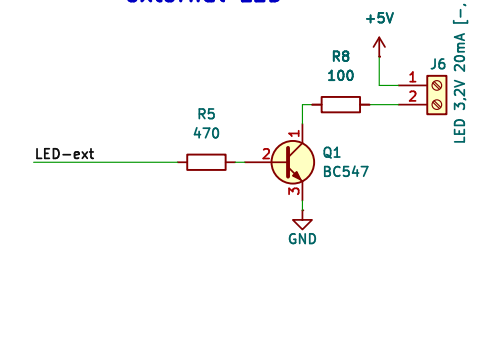
Relay for Light



Onboard Buzzer and LED



external LED



note: configure all unused pins as output and set to high at startup to prevent potential noise issues