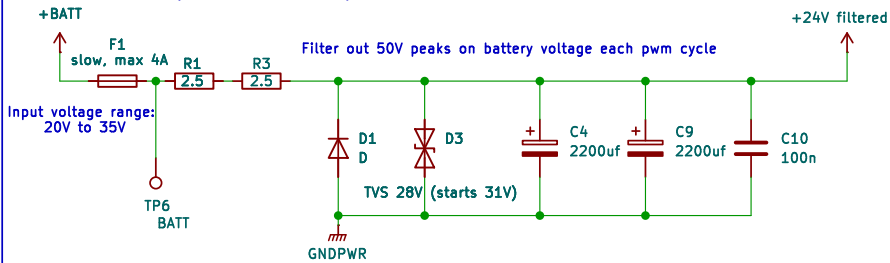
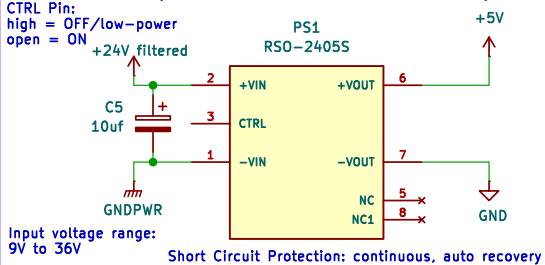


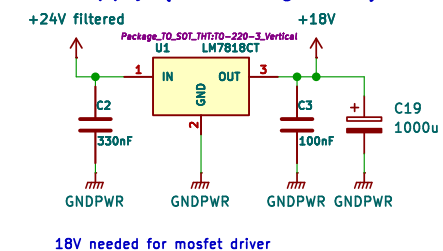
24V Supply (voltage filter)



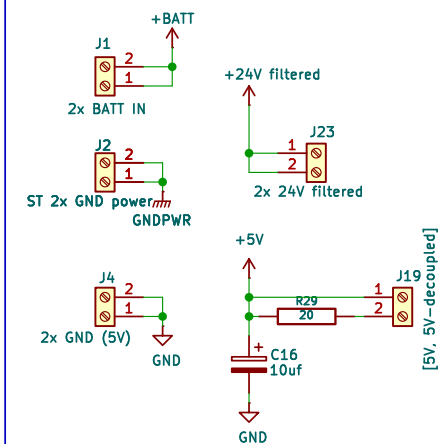
5V Supply (isolated dc-dc converter)



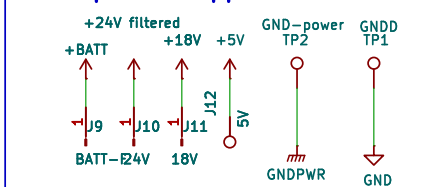
18V Supply (linear regulator)



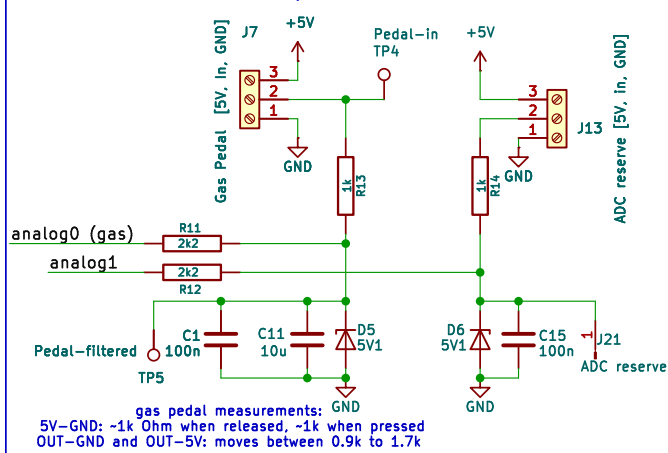
Power Terminals



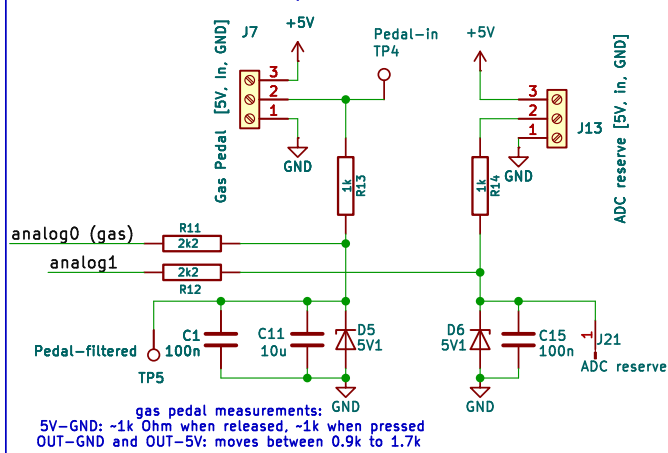
Test-points supplies



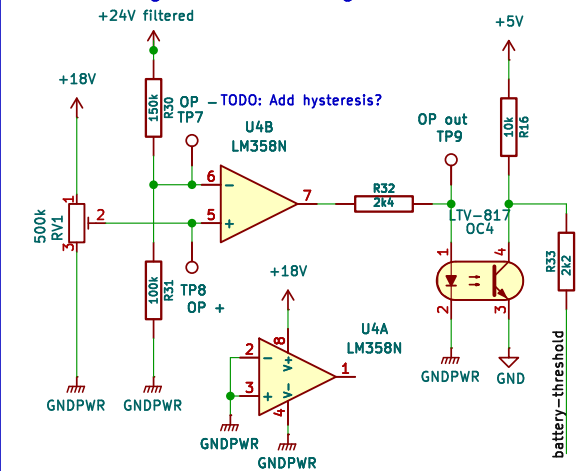
ADC Gas pedal



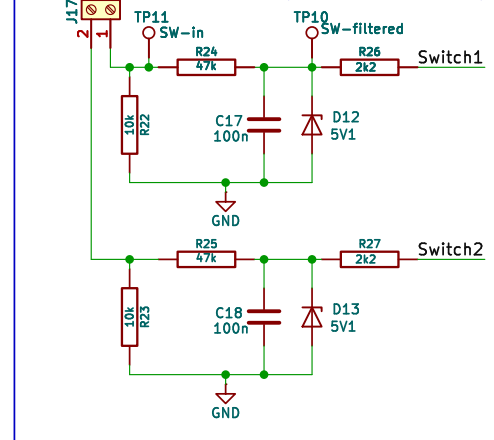
ADC Reserve



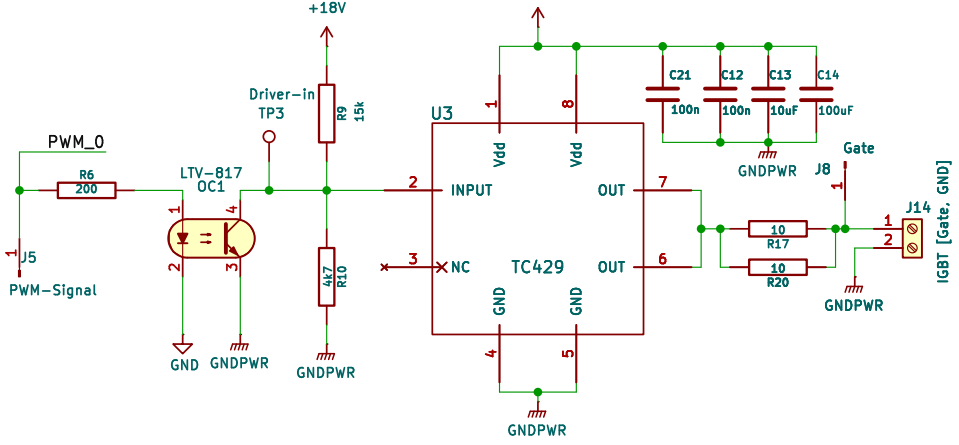
Batt-voltage threshold signal



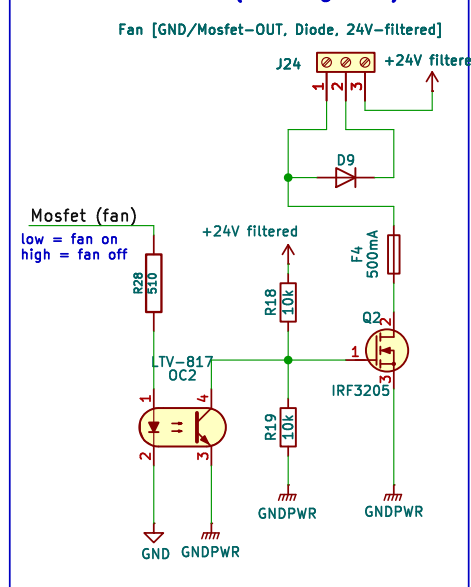
2x Digital input (Switches to 5V)



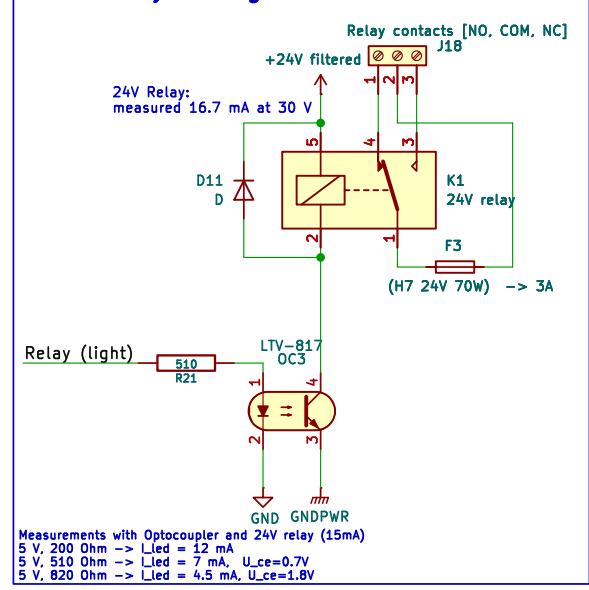
Mosfet driver for IGBT



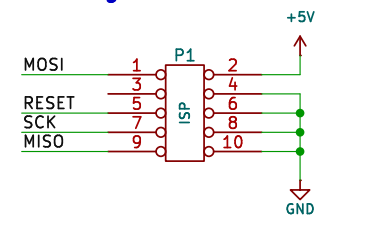
Mosfet out (cooling Fan)



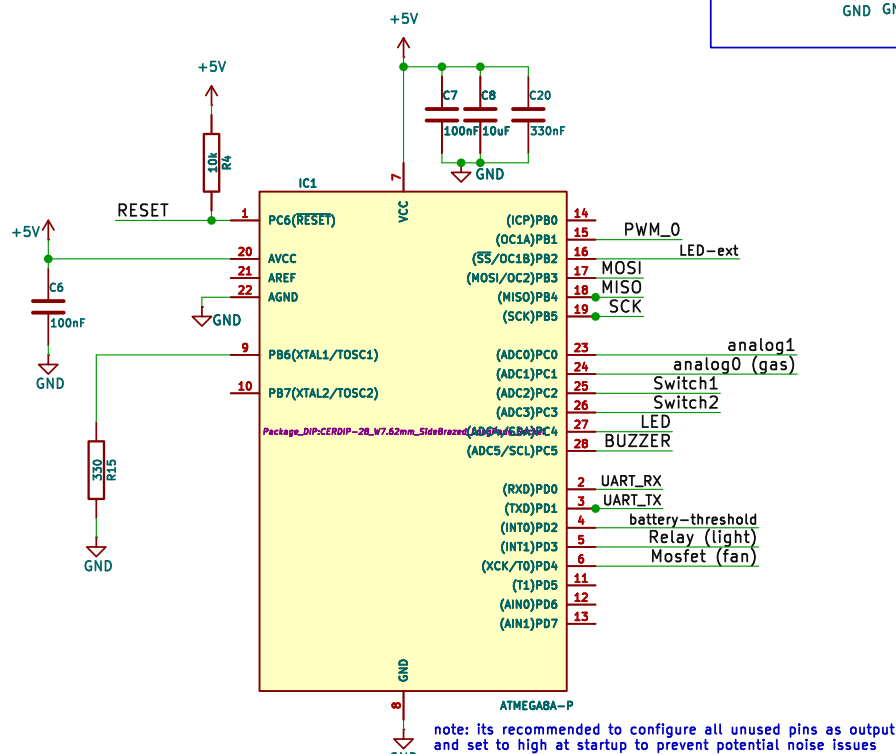
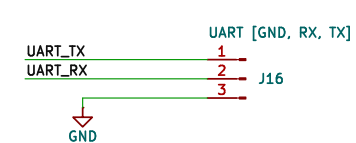
Relay for Light



ISP Programmer connector

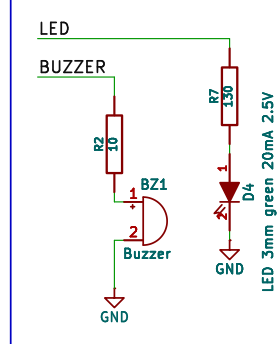


UART connector

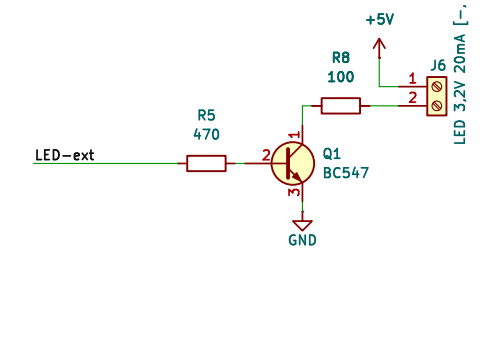


Atmega-8 Microcontroller

Onboard Buzzer and LED



External LED



- Main improvements:
- GND planes on both sides
 - 2 layer (double sided board)
 - Controller 5V and GND fully isolated (Using Isolated 5V dc-dc converter IC)

Sheet: /
File: V2.1_board-ecar_isolated.kicad_sch
Title: Second version of PCB controlling an electric kart
Size: A3 Date: 2024-08-20 Rev: V2.1
KiCad E.D.A. 8.0.4 Id: 1/1