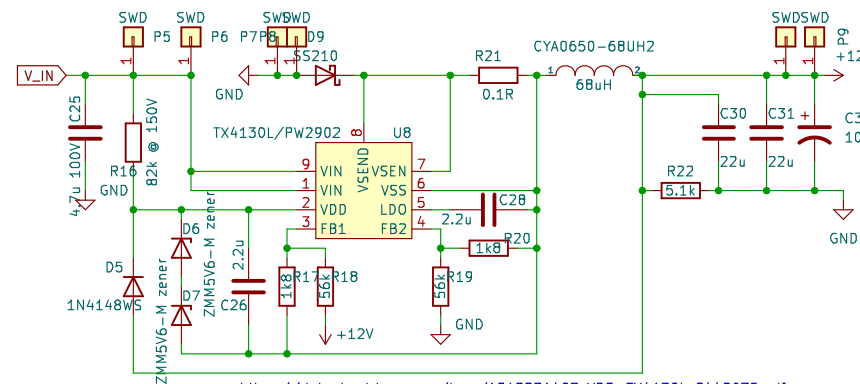
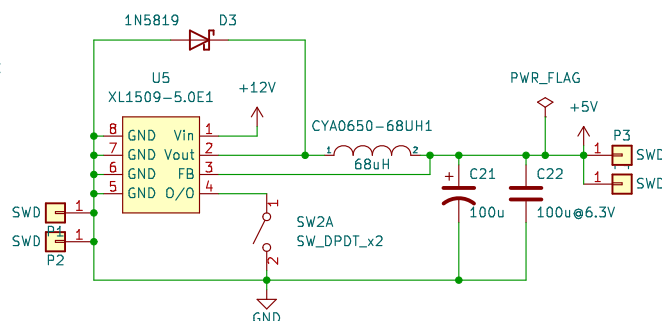
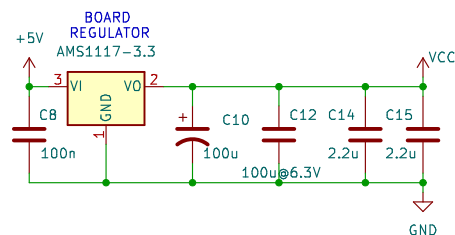
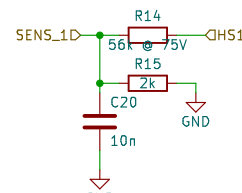
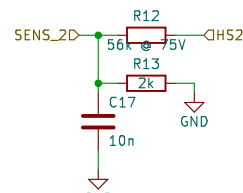
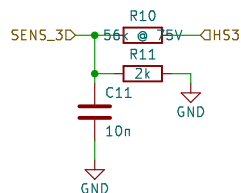


典型应用电路图: Vout: 5V/2A

TX4130L:  
VFB: min=369 typ=380 max=391 mV  
VCS: min=145 typ=150 max=155 mV

R1 = R3  
R2 = R4  
Vout= VFB \* (R2+R1)/R1  
Iout=VCS/R7 (R7=0.06R -> Iout=2.6A)  
Frequency: Fixed 140kHz  
Inductance: 33uH-100uH

#### ON/OFF Voltage Filters



[https://datasheet.lcsc.com/lcsc/1912231403\\_XDS-TX4130L\\_C448635.pdf](https://datasheet.lcsc.com/lcsc/1912231403_XDS-TX4130L_C448635.pdf)  
<https://www.pwchip.com/en/product/PW2902-174.html>

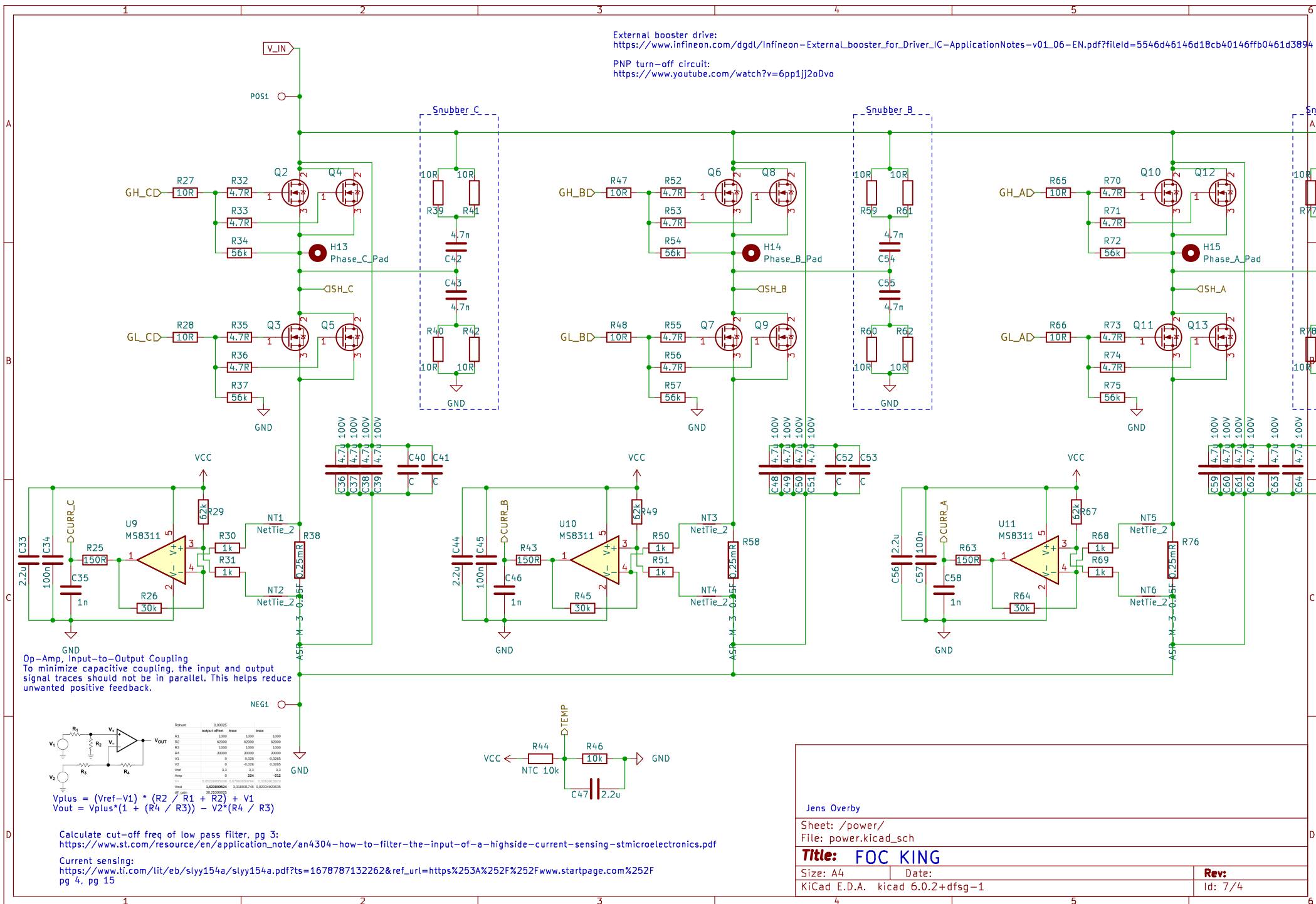
Jens Overby

Sheet: /driver/  
File: driver.kicad\_sch

Title: FOC KING

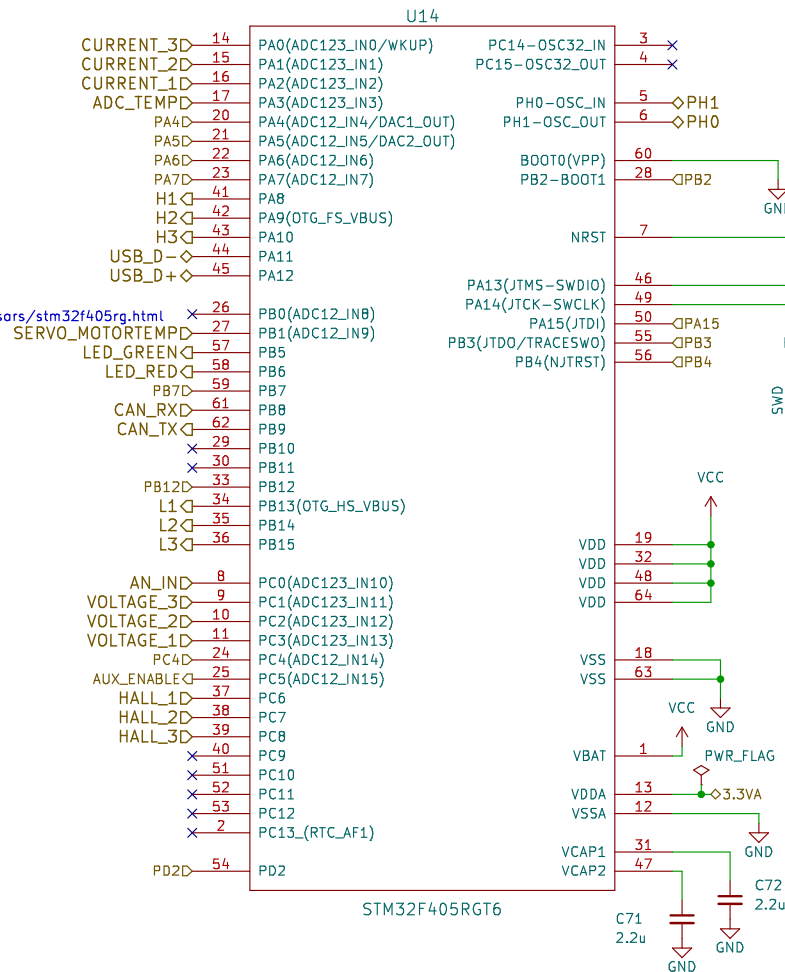
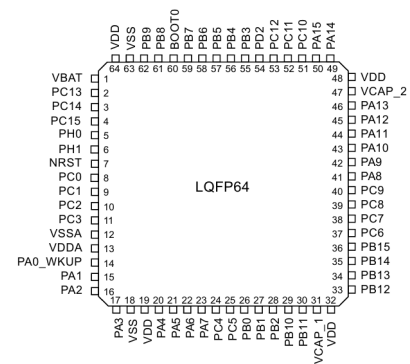
Size: A4 Date:  
KiCad E.D.A. kicad 6.0.2+dfsg-1

Rev:  
Id: 6/4

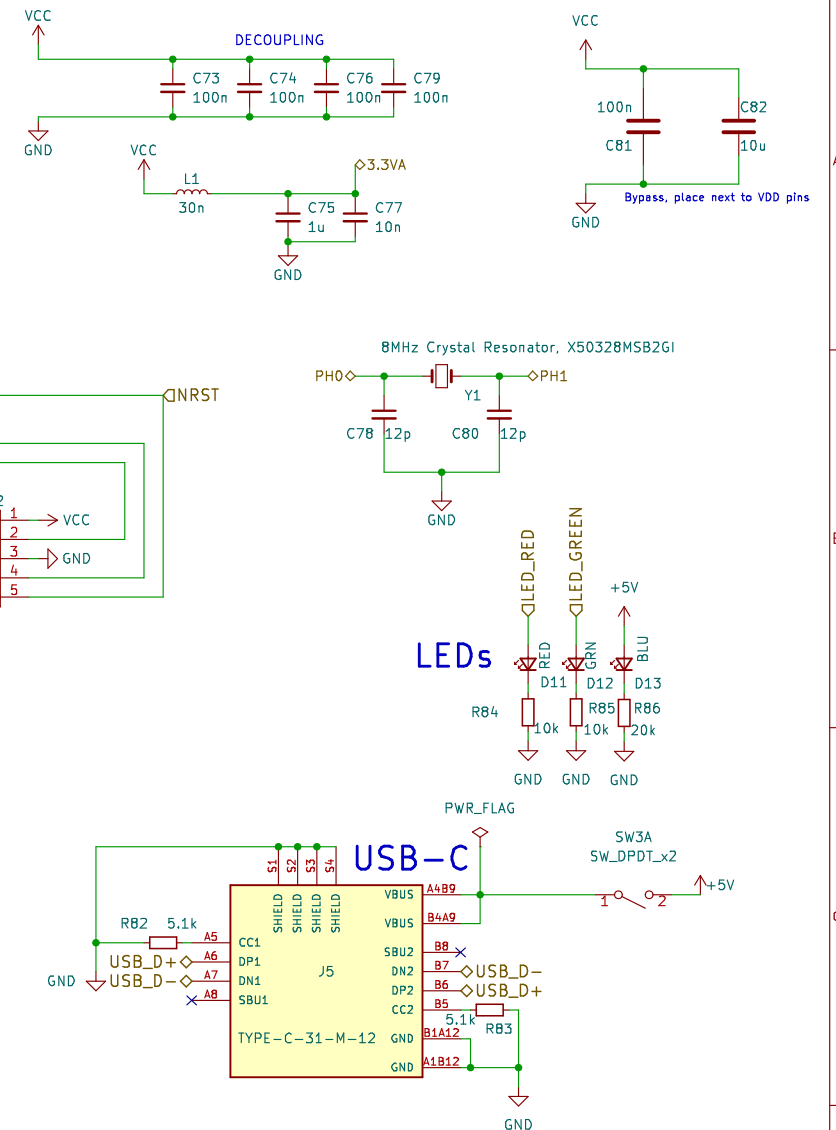


Jens Overby	
Sheet: /power/	
File: power.kicad_sch	
<b>Title:</b> FOC KING	
Size: A4	Date:
KiCad E.D.A. kicad 6.0.2+dfsg-1	
<b>Rev:</b>	
Id: 7/4	

TIM3\_CH4 is configured for pin PB1 pin 27  
according to stm32f405 datasheet  
<https://www.st.com/en/microcontrollers--microprocessors/stm32f405rg.html>



Changes:  
Xtal caps from 18pF to 12pF  
Separate the two LEDs from the single resistor  
CAN spike protection  
RC between GND and pb12 to stop false trips  
PC12->PA15 to drive LED  
Increased functionality of several header pins



Jens Overby	
Sheet: /mcu/	
File: mcu.kicad_sch	
<b>Title: FOC KING</b>	
Size: A4	Date:
KiCad E.D.A. kicad 6.0.2+dfsg-1	
Rev:	
Id: 9/4	