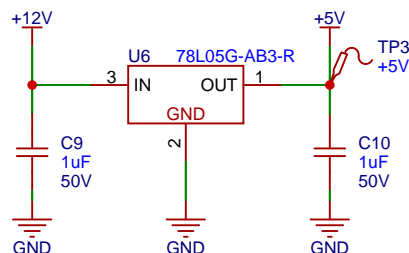
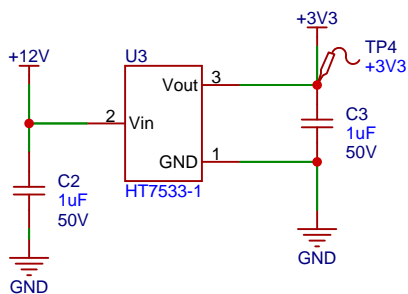
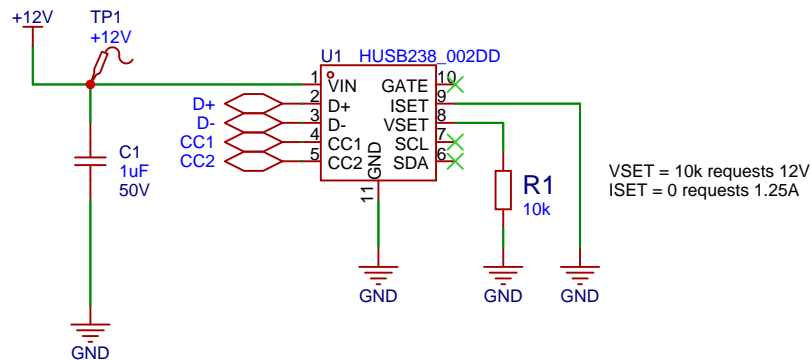
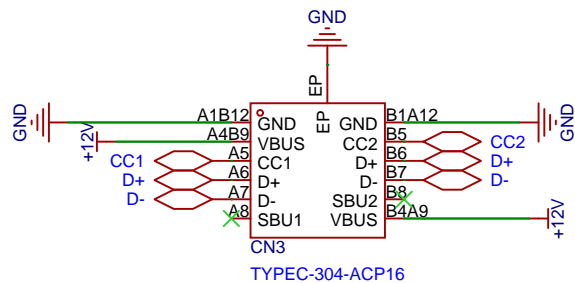
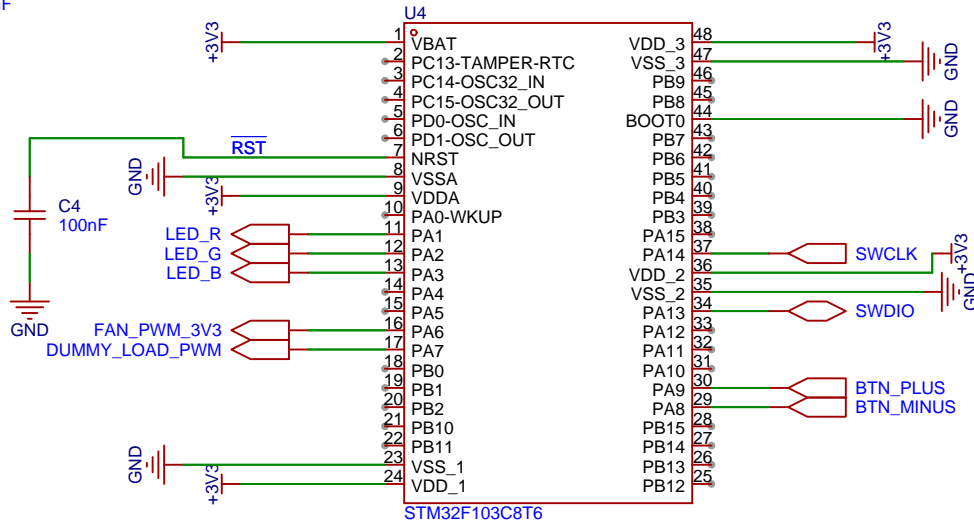
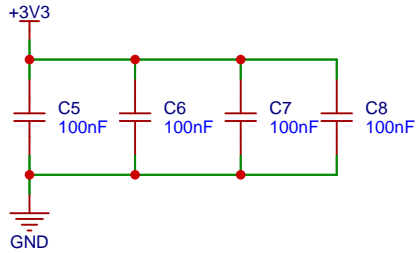


# USB Type C 12V Input



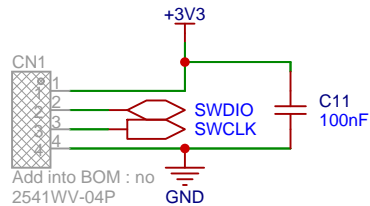
Schematic	Schematic1		Create at	2025-09-09
			Update at	2025-09-11
Board	Board1		Page	P1
Drawn	usbc-fursuit-fan			
Reviewed				
		Version	Size	Page 1 Total 4
EasyEDA		V1.0	A4	EasyEDA.com

# PWM Generation Microcontroller

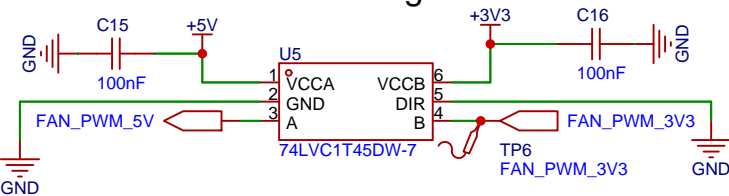


PA1 = TIM2\_CH2 (open-drain)  
PA2 = TIM2\_CH3 (open-drain)  
PA3 = TIM2\_CH4 (open-drain)  
PA6 = TIM3\_CH1  
PA7 = TIM3\_CH2  
  
PA8 for EXTI8 (pull-up)  
PA9 for EXTI9 (pull-up)

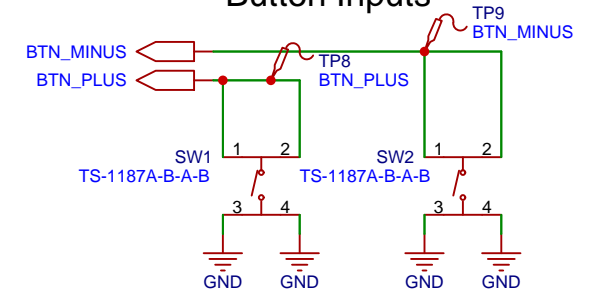
## SWD (Debug & Programming) Connector



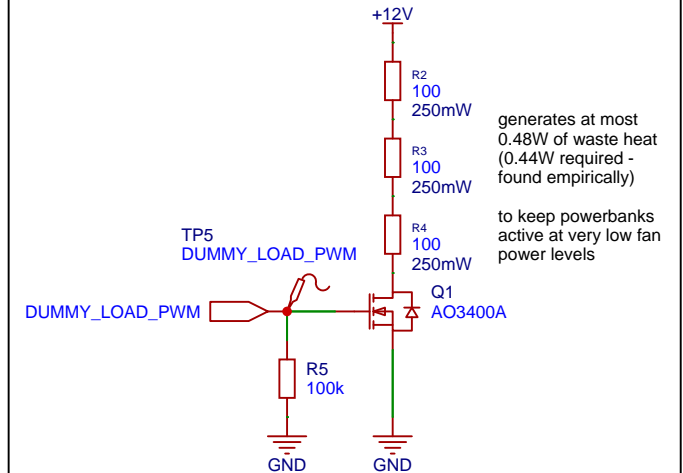
## 3.3V to 5V PWM Logic Level Shifter



## Button Inputs

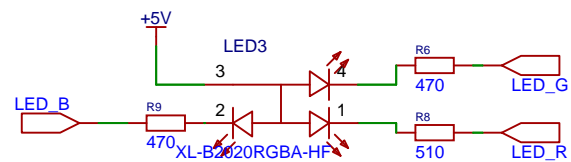


## Variable Dummy Load



Schematic	Schematic1			Create at	2025-09-09
Board	Board1			Update at	2025-09-11
Drawn				Page	P2
Reviewed				usbc-fursuit-fan	
			Version	Size	Page 2 Total 4
			V1.0	A4	EasyEDA.com

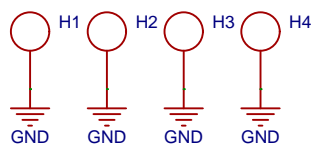
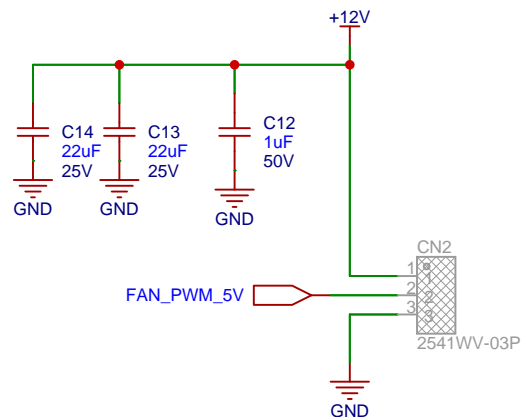
# Power Level Indicator (RGB LED)



Schematic	Schematic1			Create at	2025-09-09
				Update at	2025-09-11
Board	Board1			Page	P3
Drawn		usbc-fursuit-fan			
Reviewed					
		Version	Size	Page 3 Total 4	
EasyEDA		V1.0	A4	EasyEDA.com	

# Fan output

Mechanical Design Notes:  
- Create 1.4mm of effective wall thickness in front of the USB Type C connector to create the standard-recommended 6.2mm of insertion depth



Schematic	Schematic1		Create at	2025-09-10
			Update at	2025-09-12
Board	Board1		Page	P4
Drawn		usbc-fursuit-fan		
Reviewed				
		Version	Size	Page 4 Total 4
EasyEDA		V1.0	A4	EasyEDA.com