

Sheet: base_sheet

STM32F4

File: base.sch

Sheet: motor_control_sheet

DRV8833

File: motor_control.sch

Sheet: power_sheet

5V, 3.3V

File: power.sch

Sheet: nrf52

File: nrf52.sch

Sheet: mounting_sheet

Mounting holes

File: mounting.sch

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Sheet: /

File: robot_pcb0.sch

Title: Four DC-Motor Controller

Size: A4

Date:

Rev:

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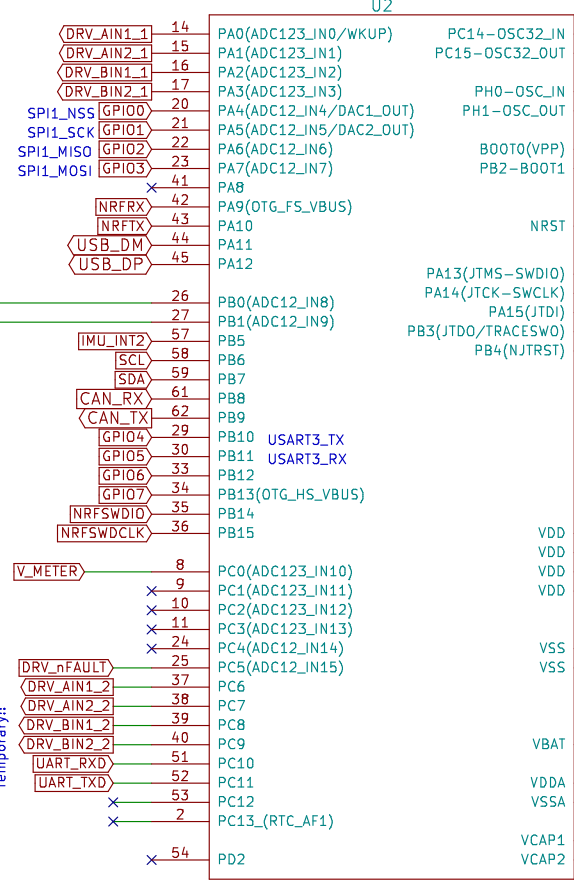
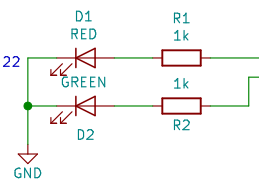
(TIM1 is more capable than TIM2 - 5
 TIM1 CH1 PIN 23 (N), 27(N), 34(N), 36(N), 41
 TIM1 CH2 PIN 42
 TIM1 CH3 PIN 43
 TIM1 CH4 PIN 44

(Maybe prefer these ?)
 TIM2 CH1 PIN 14, 21
 TIM2 CH2 PIN 15, 55
 TIM2 CH3 PIN 16, 29
 TIM2 CH4 PIN 17, 30

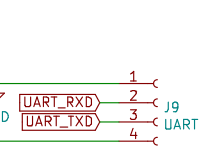
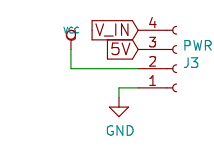
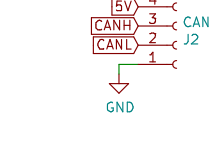
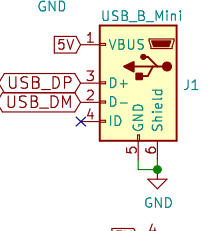
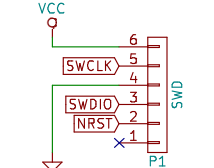
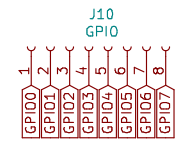
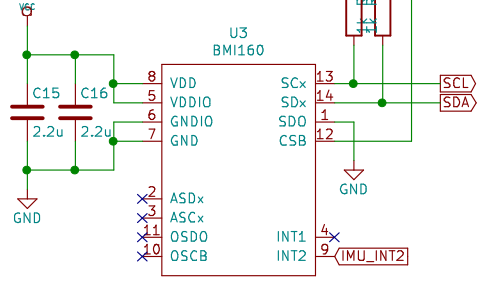
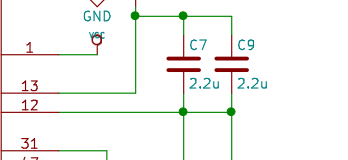
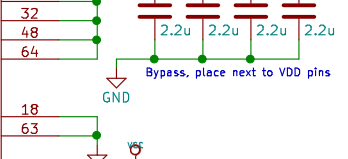
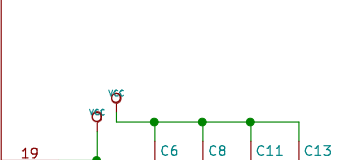
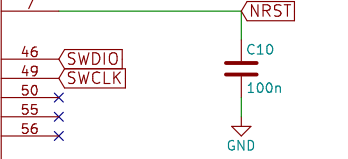
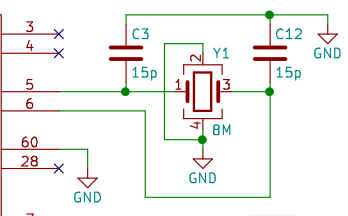
TIM3 CH1 PIN 37, 56
 TIM3 CH2 PIN 38
 TIM3 CH3 PIN 26, 39
 TIM3 CH4 PIN 40

TIM4 CH1 PIN 58
 TIM4 CH2 PIN 59
 TIM4 CH3 PIN 61
 TIM4 CH4 PIN 62

TIM5 CH1 PIN 14, 22
 TIM5 CH2 PIN 15
 TIM5 CH3 PIN 16
 TIM5 CH4 PIN 17

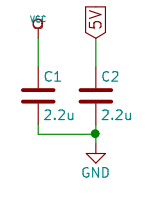
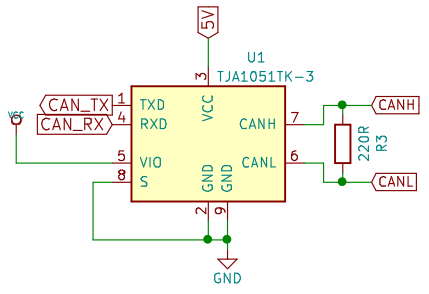


STM32F40X_LQFP64



UART PINS
 UART4 TX: 14, 51
 UART4 RX: 15, 52
 UART5 TX: 53
 UART5 RX: 54

meta information
 VCC
 PWR_FLAG



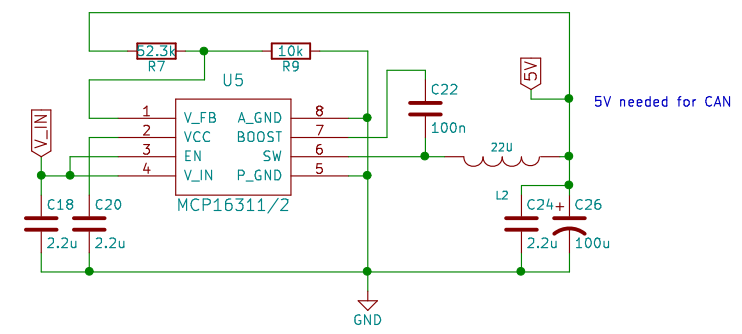
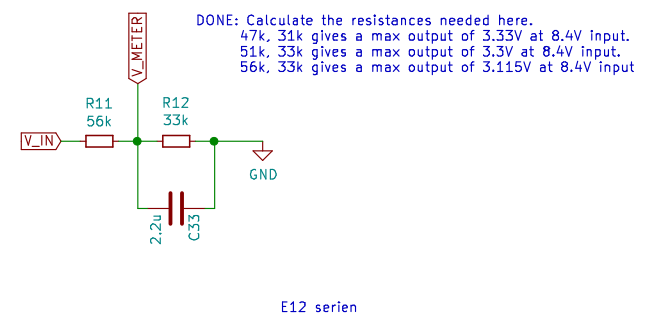
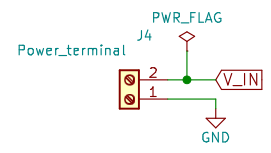
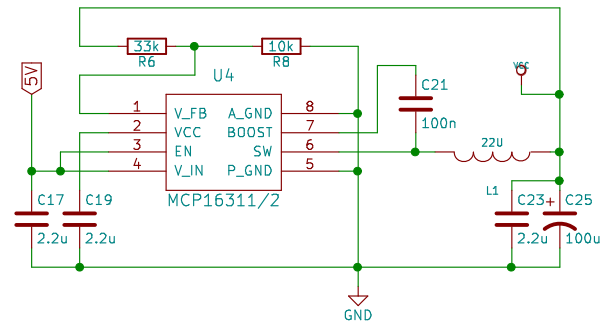
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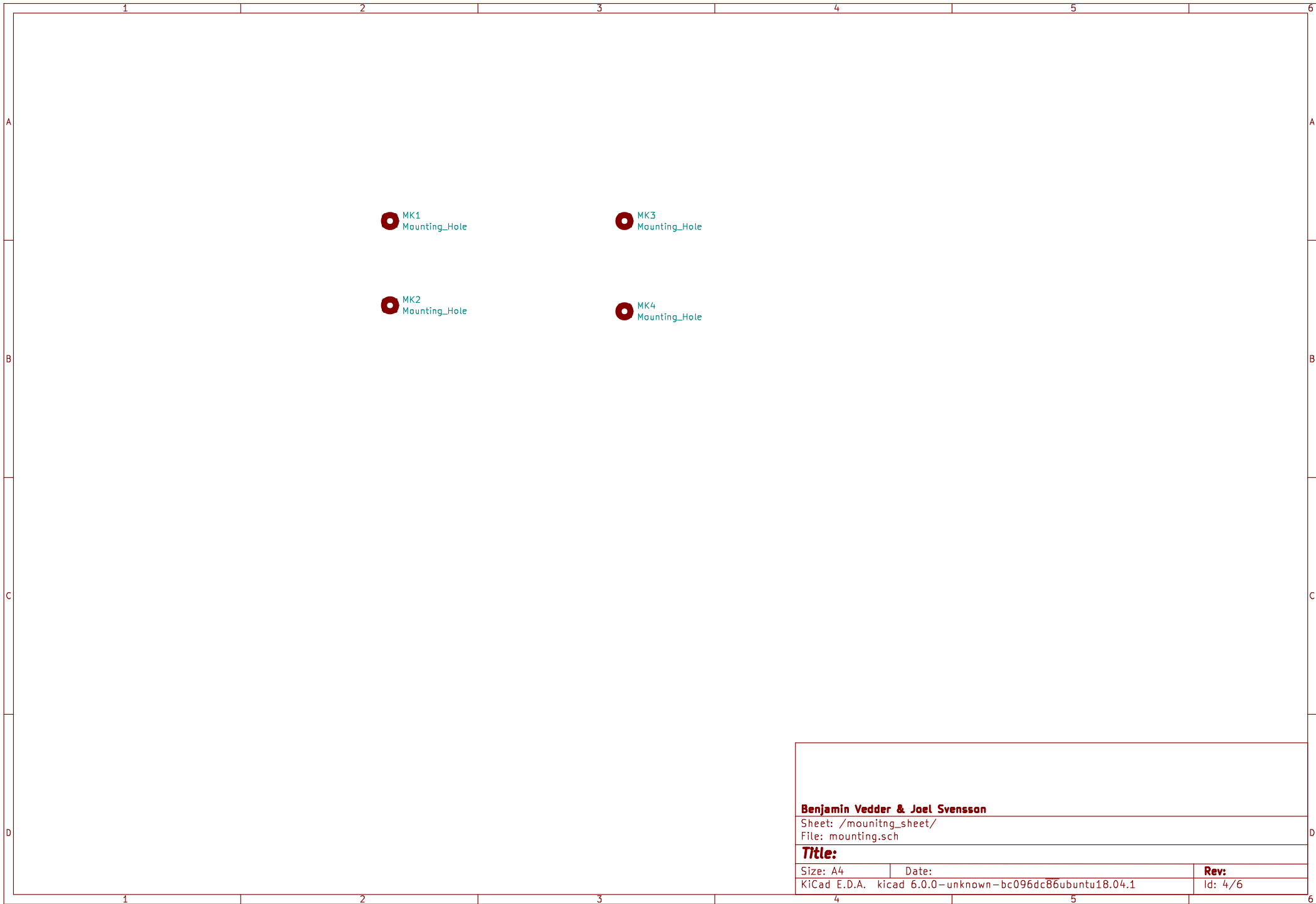
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The DRV8833 can handle 11.8V max on the VM (motor voltage)

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Sheet: /power_sheet/		
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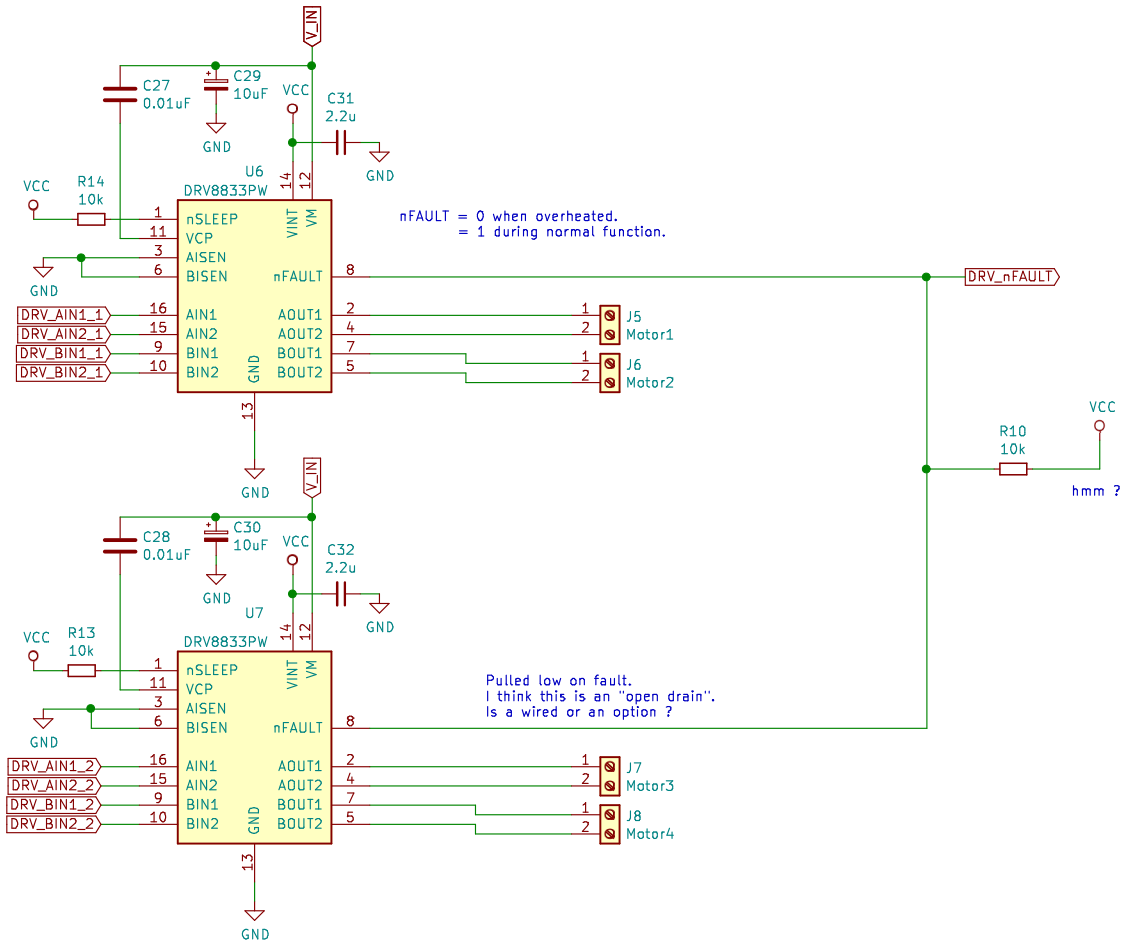
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AISEN and BISEN directly to ground means no "current control".



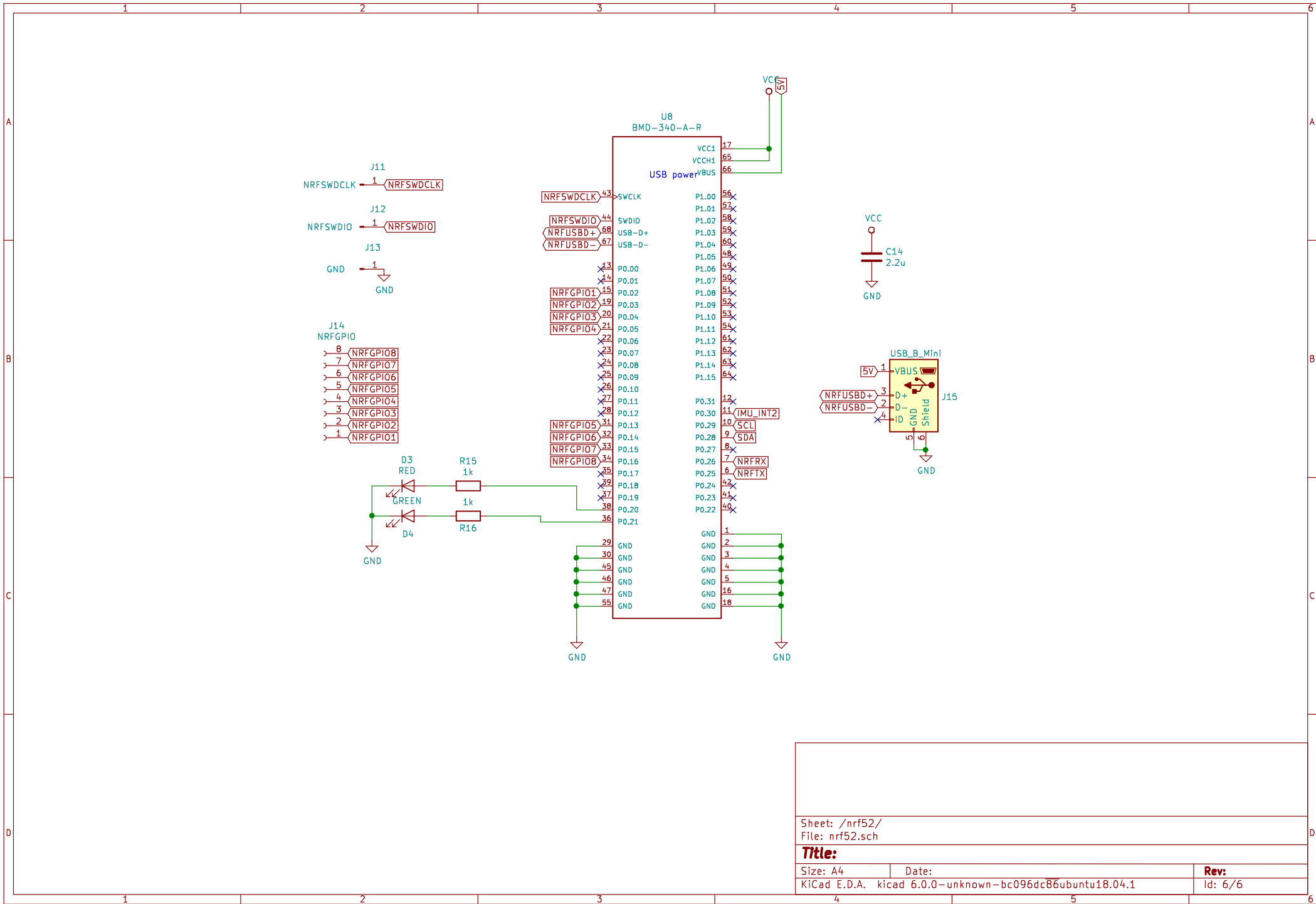
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Id: 5/6



Sheet: /nrf52/		
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