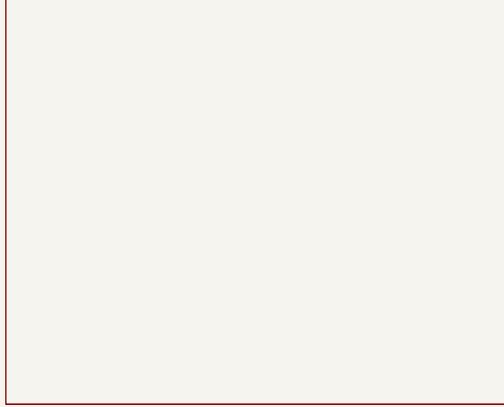
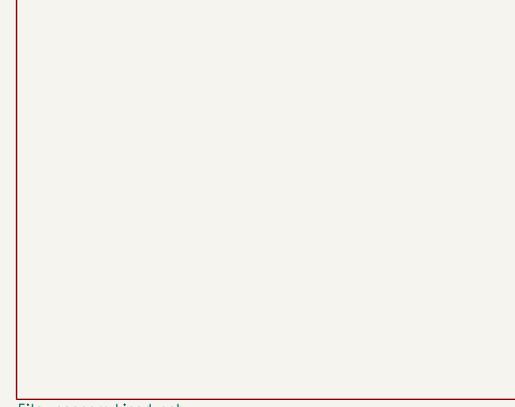


Power supply



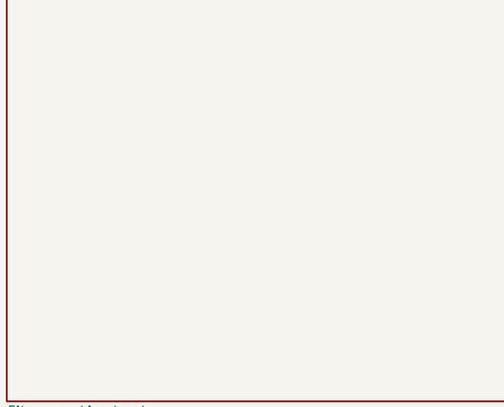
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Sensors



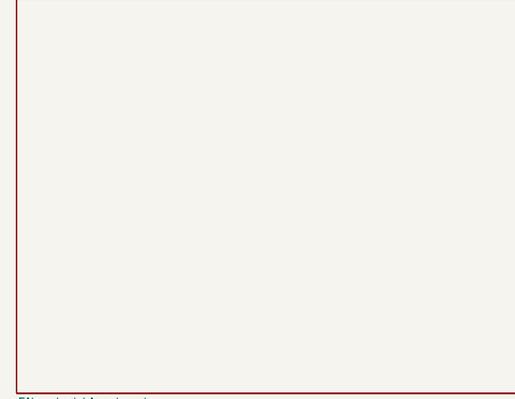
File: sensors.kicad_sch

mcu



File: mcu.kicad_sch

LED



File: led.kicad_sch



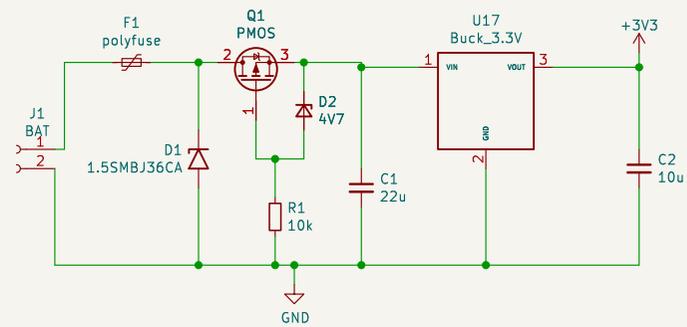
Sheet: /
File: detection_pcb.kicad_sch

Title:

Size: A4 Date: Rev:

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Power Input, resettable fuse, ESD/reverse polarity protection



Sheet: /Power supply/
File: PSU.kicad_sch

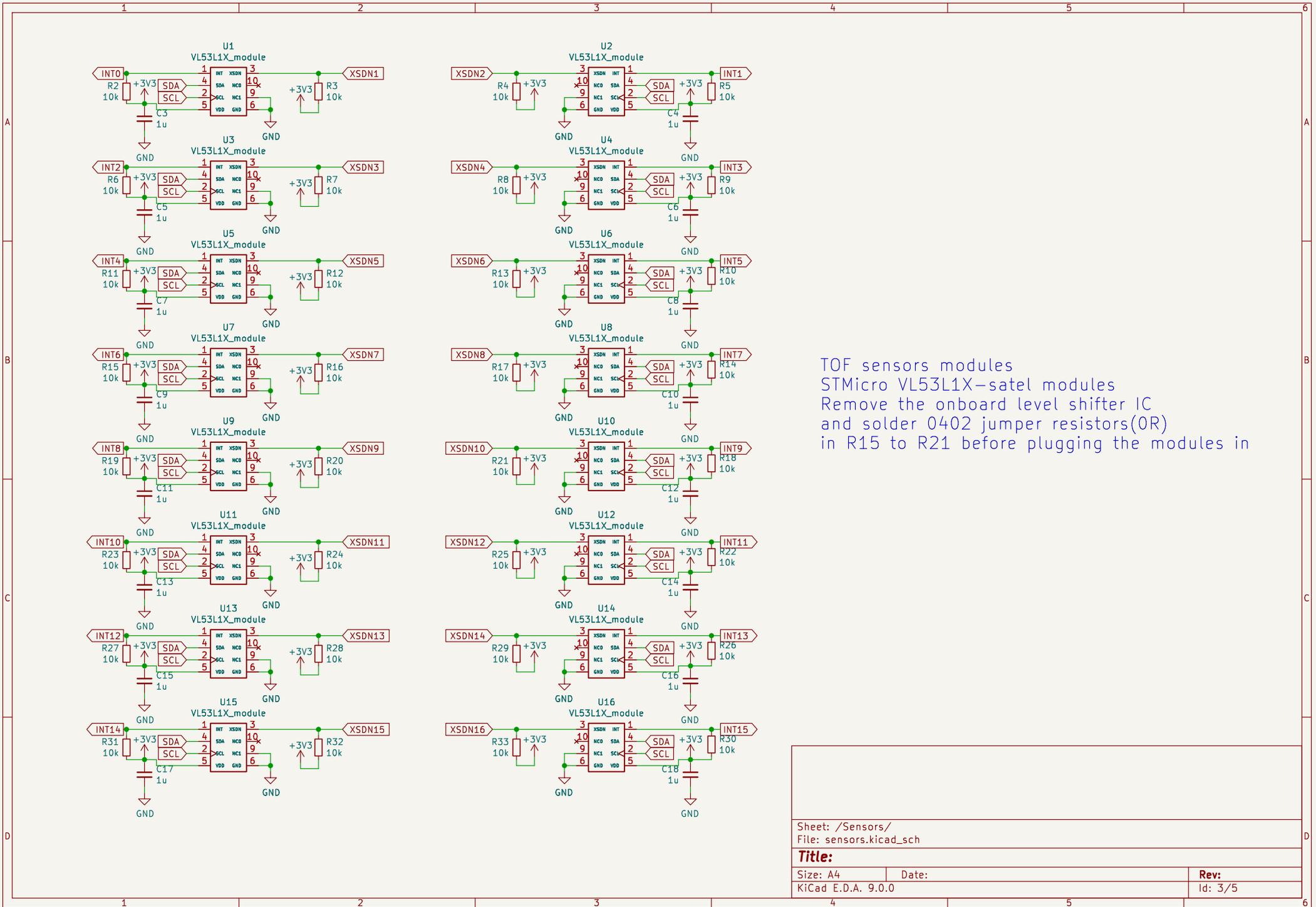
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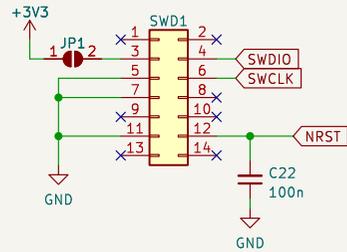
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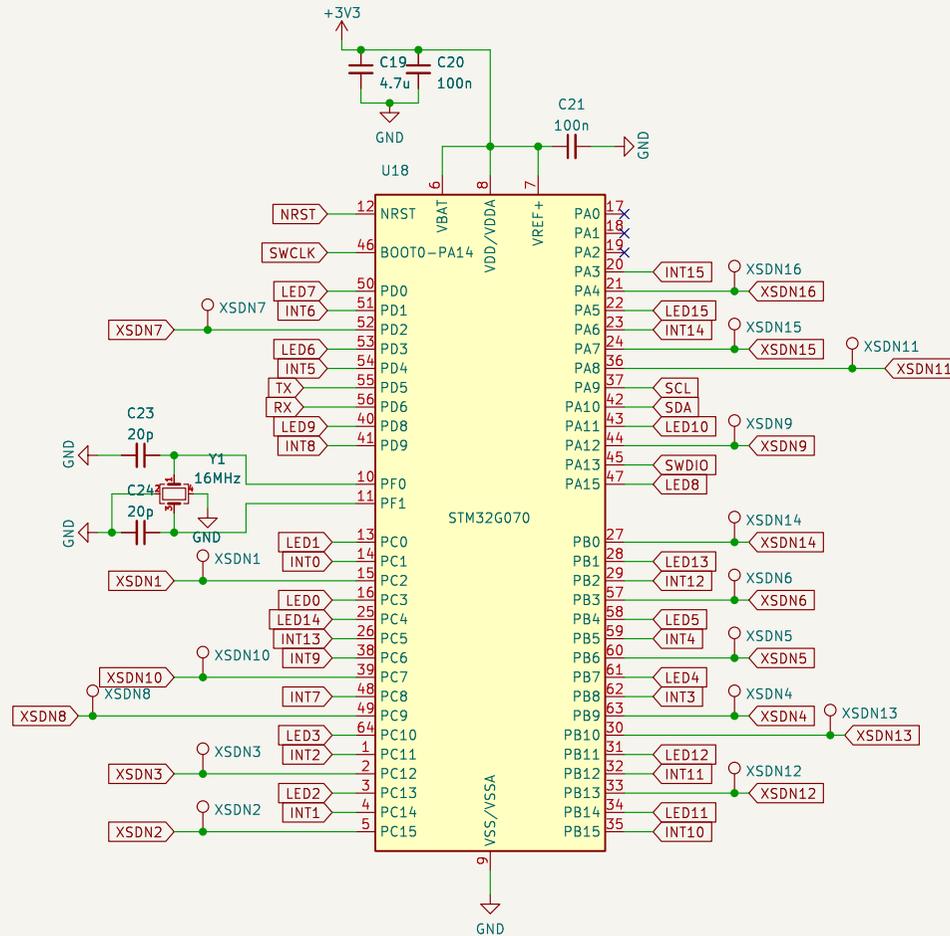
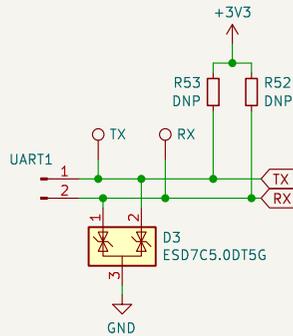
TOF sensors modules
 STMicro VL53L1X-satel modules
 Remove the onboard level shifter IC
 and solder 0402 jumper resistors(OR)
 in R15 to R21 before plugging the modules in

Sheet: /Sensors/ File: sensors.kicad_sch	
Title:	
Size: A4	Date:
KiCad E.D.A. 9.0.0	Rev: Id: 3/5

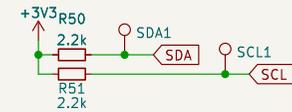
STLINK
UART not connected



UART + ESD protection
Optional pullups



I2C Pullups



INT0 = PC1	XSDN1 = PC2	LED0 = PC3
INT1 = PC14	XSDN2 = PC15	LED1 = PC0
INT2 = PC11	XSDN3 = PC12	LED2 = PC13
INT3 = PB8	XSDN4 = PB9	LED3 = PC10
INT4 = PB5	XSDN5 = PB6	LED4 = PB7
INT5 = PD4	XSDN6 = PB3	LED5 = PB4
INT6 = PD1	XSDN7 = PD2	LED6 = PD3
INT7 = PC8	XSDN8 = PC9	LED7 = PD0
INT8 = PD9	XSDN9 = PA12	LED8 = PA15
INT9 = PC6	XSDN10 = PC7	LED9 = PD8
INT10 = PB15	XSDN11 = PA8	LED10 = PA9
INT11 = PB12	XSDN12 = PB13	LED11 = PB14
INT12 = PB2	XSDN13 = PB10	LED12 = PB11
INT13 = PC5	XSDN14 = PB0	LED13 = PB1
INT14 = PA6	XSDN15 = PA7	LED14 = PC4
INT15 = PA3	XSDN16 = PA4	LED15 = PA5

Sheet: /mcu/
File: mcu.kicad_sch

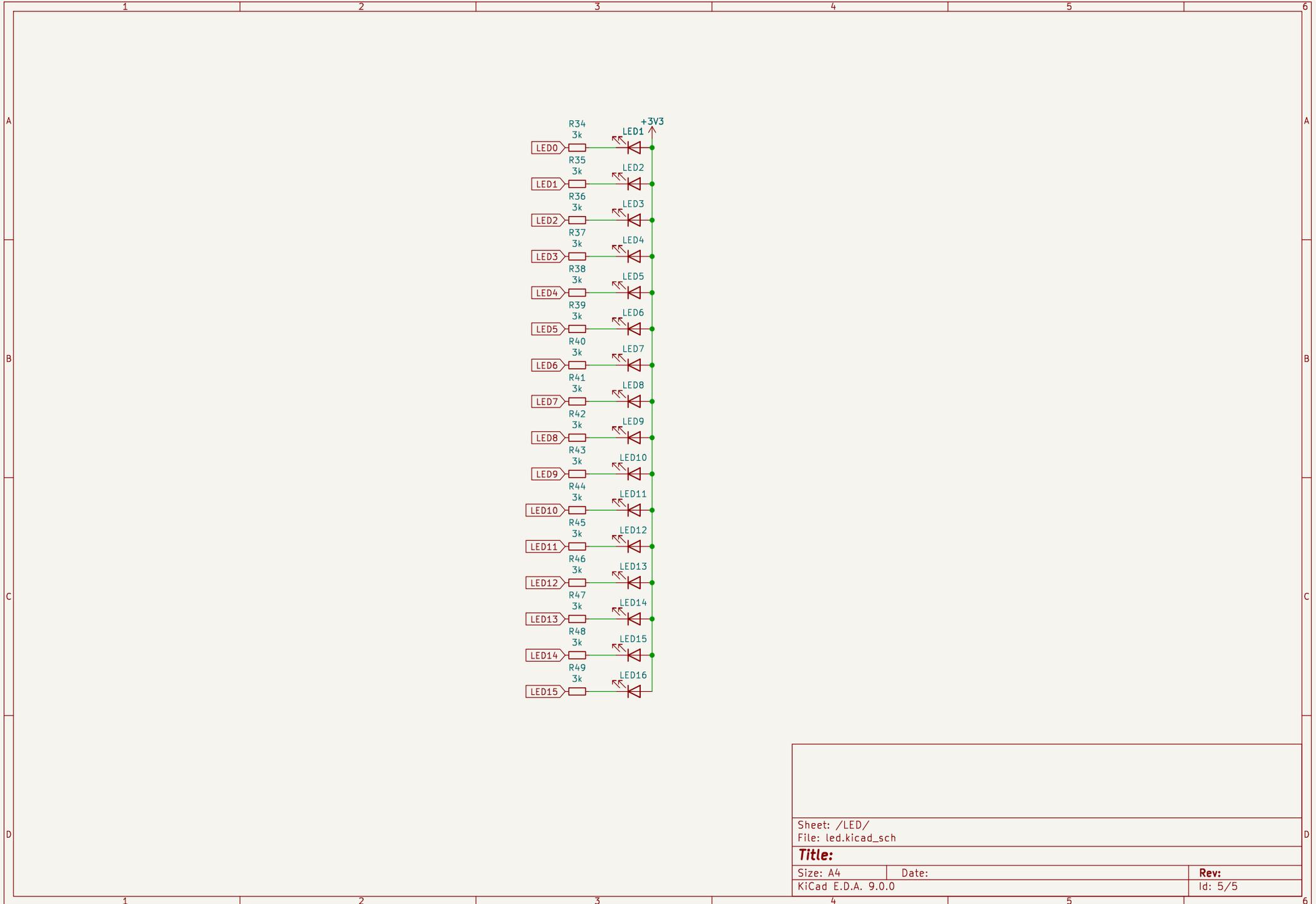
Title:

Size: A4
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Date:

Rev:

Id: 4/5



Sheet: /LED/
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Title:

Size: A4 Date:

KiCad E.D.A. 9.0.0

Rev:

Id: 5/5