

Fatigue Test Board

[1] Power

Power



File: Power.kicad_sch

[2] MCU

MCU



File: MCU.kicad_sch

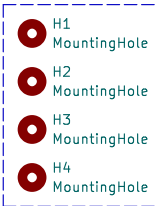
[3] ADC

ADC



File: ADC.kicad_sch

Mounting Holes (M3)



Josue Cavazos Jr.

Sheet: /
File: Fatigue Test Board.kicad_sch

Title: Fatigue Test Board

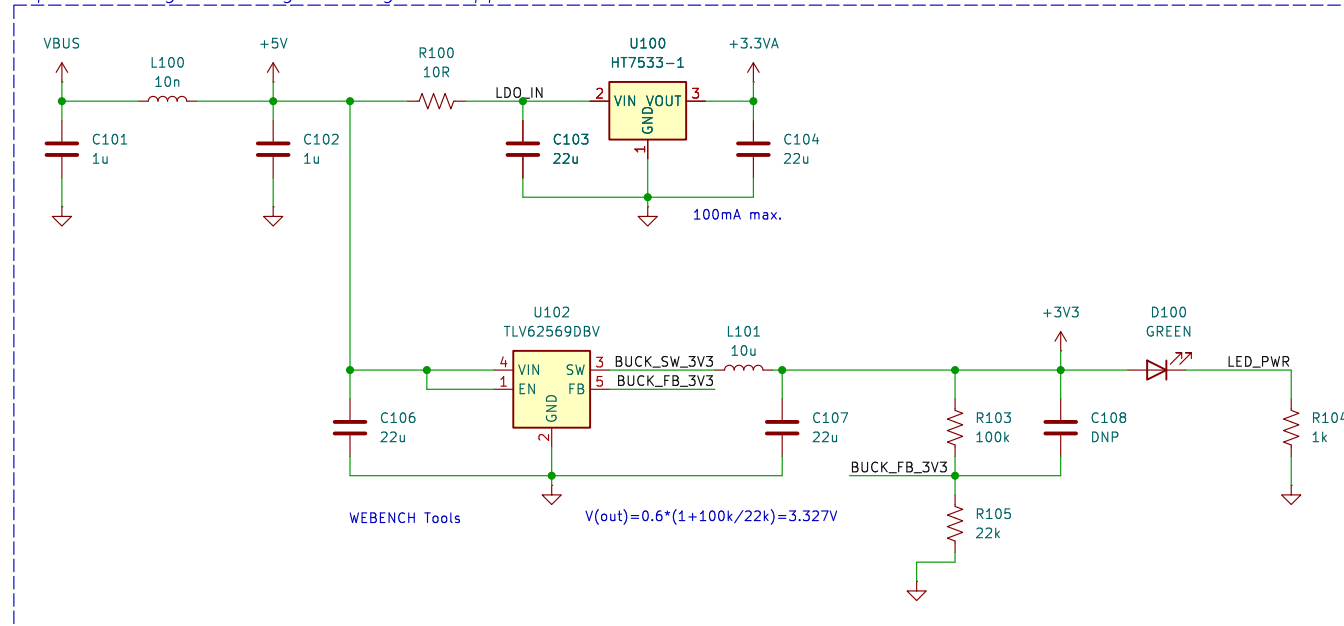
Size: A4
KiCad E.D.A. 9.0.0

Date: 2025-02-21

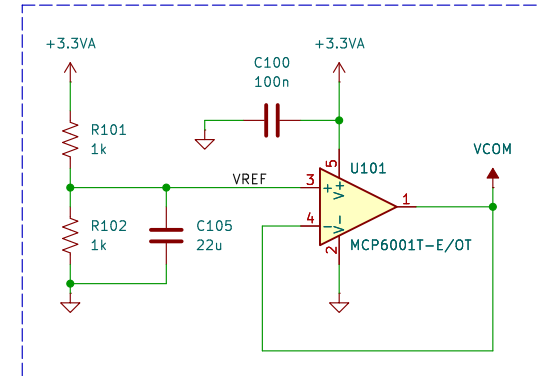
Rev: -
Id: 1/4

[1] Power

Input Filtering & Analog and Digital Supplies



Bias Generator



VBUS power comes from USB Type C connector (schematic page 2)

Josue Cavazos Jr.

Sheet: /Power/
File: Power.kicad_sch

Title: Power

Size: A4	Date: 2025-02-21
----------	------------------

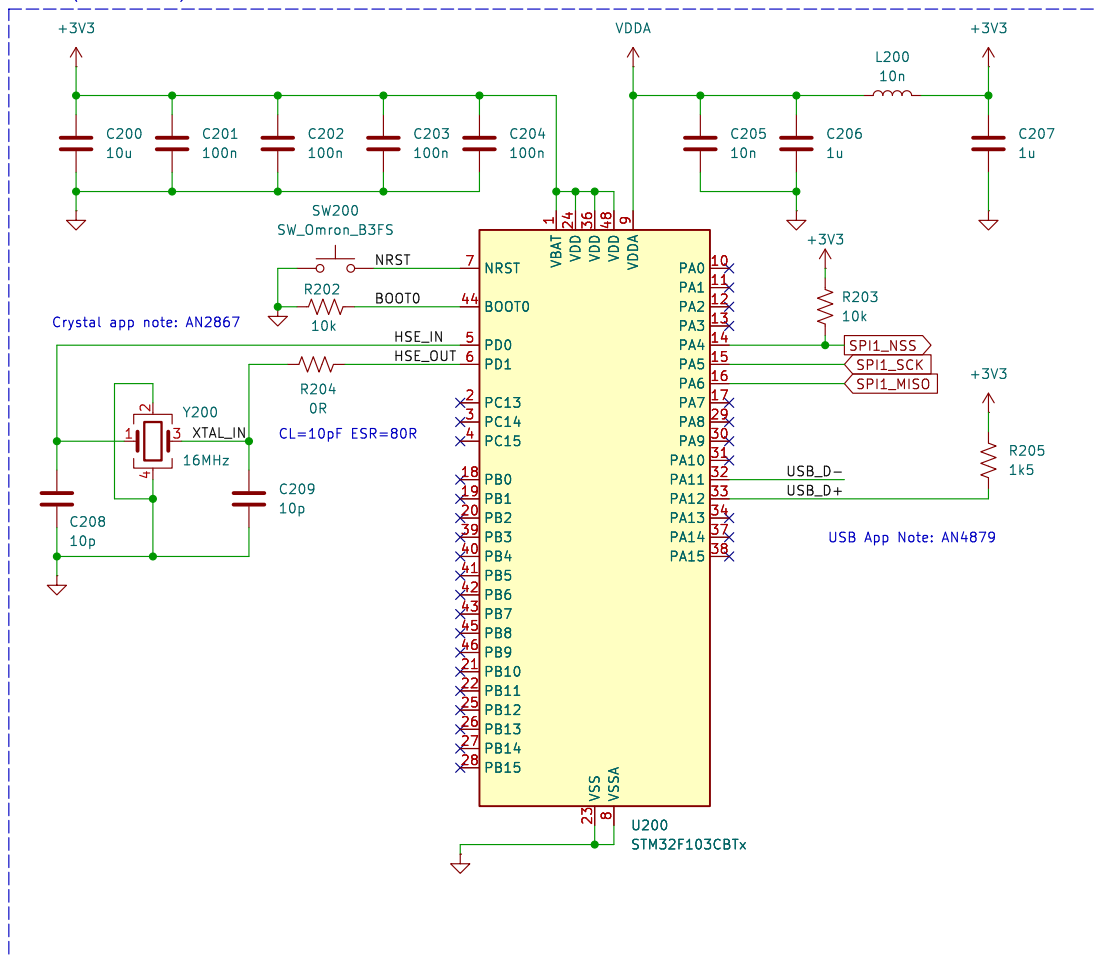
KiCad E.D.A. 9.0.0

Rev: -

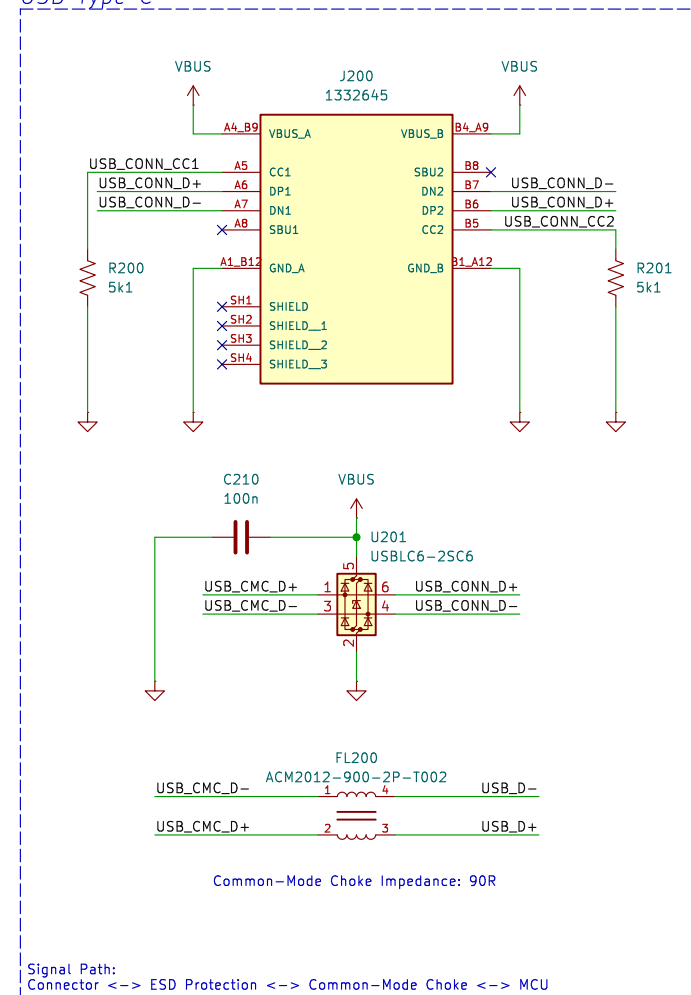
Id: 2/4

[2] Microcontroller & USB

MCU (STM32F1)



USB Type C



Josue Cavazos Jr.

Sheet: /MCU/
File: MCU.kicad_sch

Title: MCU

Size: A4 Date: 2025-02-21

KiCad E.D.A. 9.0.0

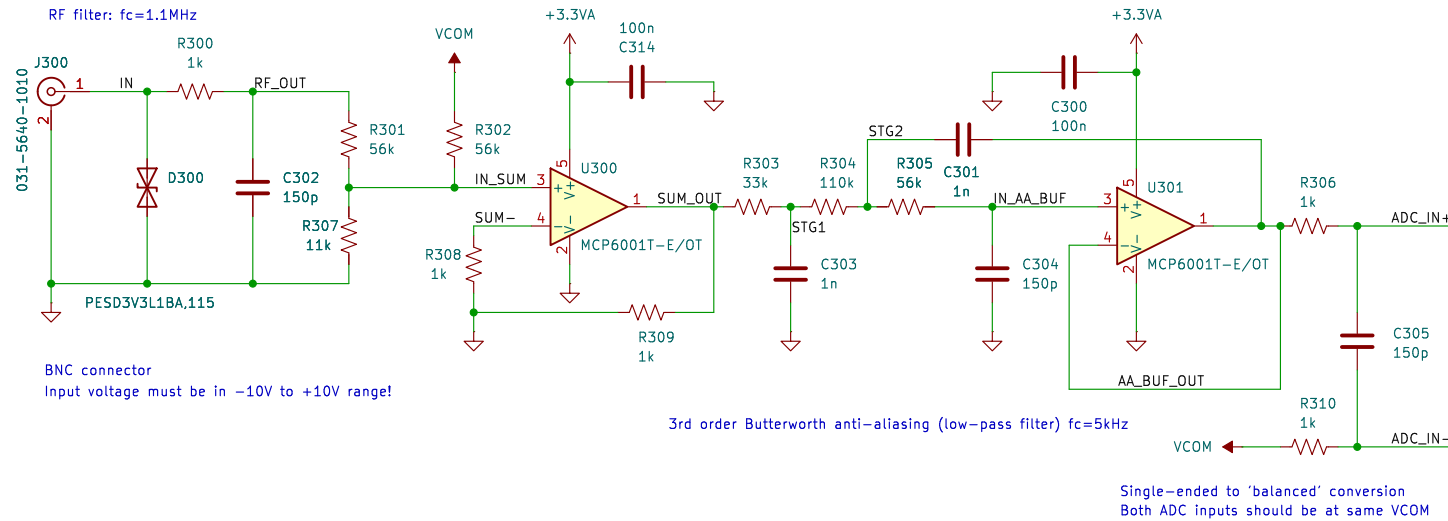
Rev: -

Id: 3/4

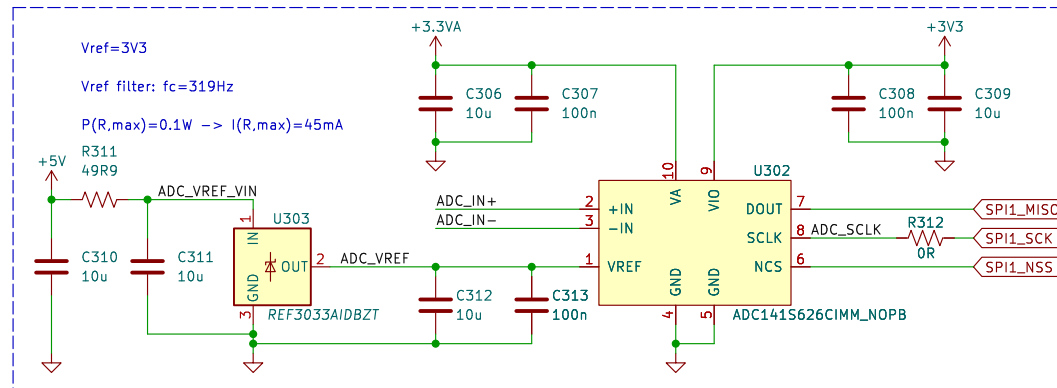
[3] ADC & Analog Front-End

Analog Front-End

MCP6001: I/O Rail-to-Rail, Single-Supply (1V8 to 5V), high-impedance input CMOS, low bias currents, unity gain stable



14-Bit S/H ADC



Josue Cavazos Jr.

Sheet: /ADC/
File: ADC.kicad_sch

Title: ADC

Size: A4
KiCad E.D.A. 9.0.0

Date: 2025-02-21

Rev: -
Id: 4/4