

dc=0 amplitude=1 f=1k

Testkrets

CH1 CH2 CH3 CH4 CH5

G1 G2 G3 G4

GND\_A

Datainnhentesenhet

VDDA

VDDA

CH1

C1 1 uF

C2 100 uF

IN+ IN- Vref Vdd

CLK Dout CS

ADC1 MCP3201

VDDA

VDDA

CH2

C6 1 uF

C7 100 uF

IN+ IN- Vref Vdd

CLK Dout CS

ADC2 MCP3201

VDDA

VDDA

CH3

C8 1 uF

C9 100 uF

IN+ IN- Vref Vdd

CLK Dout CS

ADC3 MCP3201

VDDA

VDDA

CH4

C10 1 uF

C11 100 uF

IN+ IN- Vref Vdd

CLK Dout CS

ADC4 MCP3201

VDDA

VDDA

CH5

C12 1 uF

C13 100 uF

IN+ IN- Vref Vdd

CLK Dout CS

ADC5 MCP3201

Pi-filter

VDDD

L1 100 mH

C3 100 uF

C4 470 uF

C5 100 nF

GND\_A

GND\_A

GND\_A

Prosesseringsenhet

VDDD

CAM\_BUS

Raspberry\_Pi\_3B

GPIO2 GPIO3 GPIO4

GPIO17 GPIO16 GPIO13 GPIO12 GPIO6 GPIO24 GPIO25

GPIO8 GPIO11 GPIO7 GPIO10 GPIO9

GPIO14 GPIO15

GPIO5 GPIO23 GPIO27 GPIO18 GPIO12 GPIO15 GPIO35 GPIO20 GPIO21 GPIO26

ID\_SD ID\_SC

GND

GND\_D

GND\_A

GND

GND\_D

Kristian Håland og Christian Heimvik

Sheet: /

File: Lab1.kicad\_sch

Title: Lab 1

Size: A4 Date: 2024-01-25

KiCad E.D.A. kicad (7.0.0)

Rev: Rev2

Id: 1/1

Id: 1/1