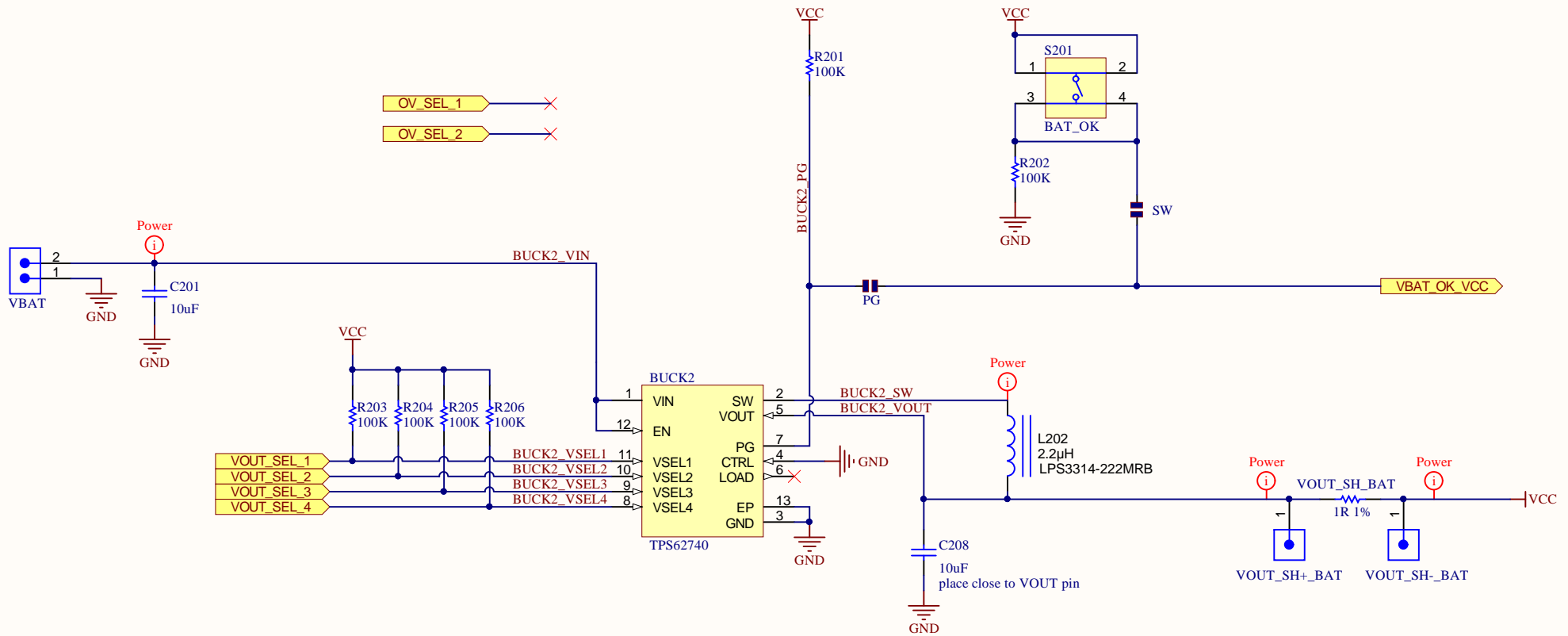


Battery Pack and Buck Converter

**ETH**

Eidgenössische Technische Hochschule Zürich
Swiss Federal Institute of Technology Zurich

Project:

Vision Sensor - Battery Pack

Drawing number: *

Date: 28.07.2016 11:33:28

Rev. ★

Format:	Laboratory:	ETHZ TIK
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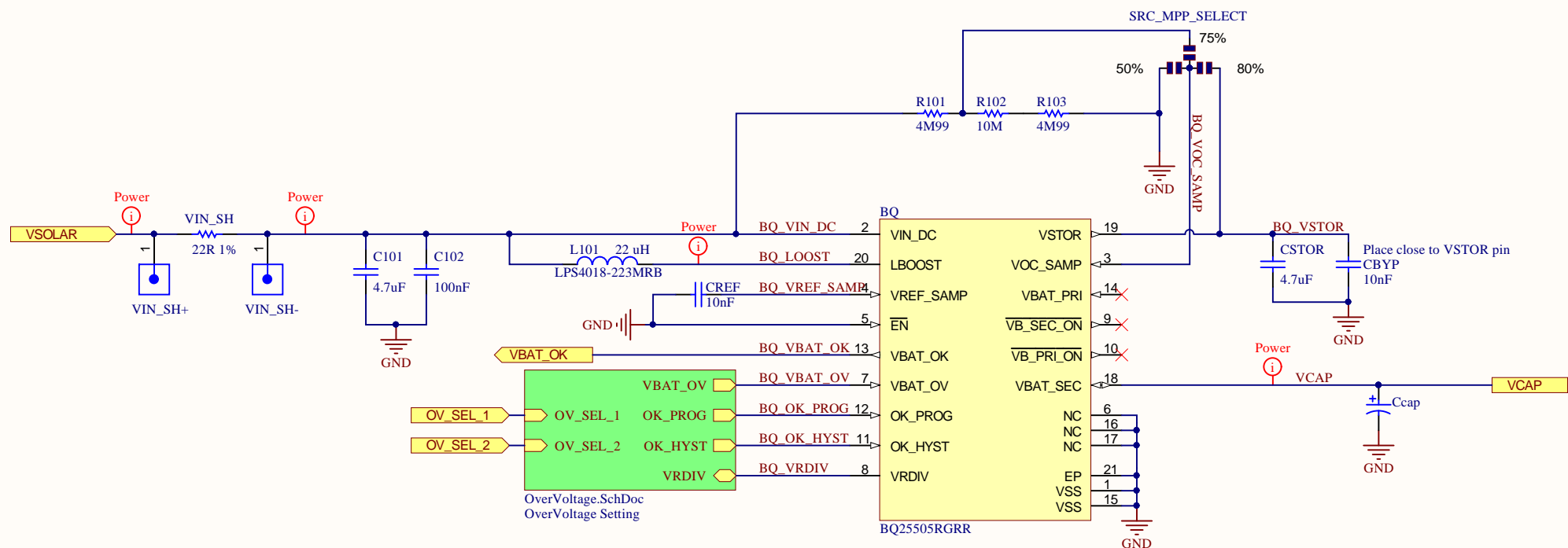
A4 Q Drawn by: **Thomas Schalch**

Sheet: BatteryPack.SchDoc

Page * of *

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BQ Energy Harvesting Subsystem



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Swiss Federal Institute of Technology Zurich

Project:

Vision Sensor - EMU - BQ Subsystem

Drawing number: ★Rev. 

Format:

Laboratory: ETHZ TIK

Sheet: BQ_Subsystem.SchDoc

Date: 28.07.2016 11:33:28

A4 Q

Drawn by: **Thomas Schalch**

Page ★ of ★

File: C:\Users\user\Dropbox\Masterthesis\MA_TransientOpticalFlow\pcb\MSP432_prototype\BQ_Subsystem.SchDoc

TS9001
Vref = 1.252 V

5
4
3
V+
IN-
IN+
OUT
V-
1
2
GND

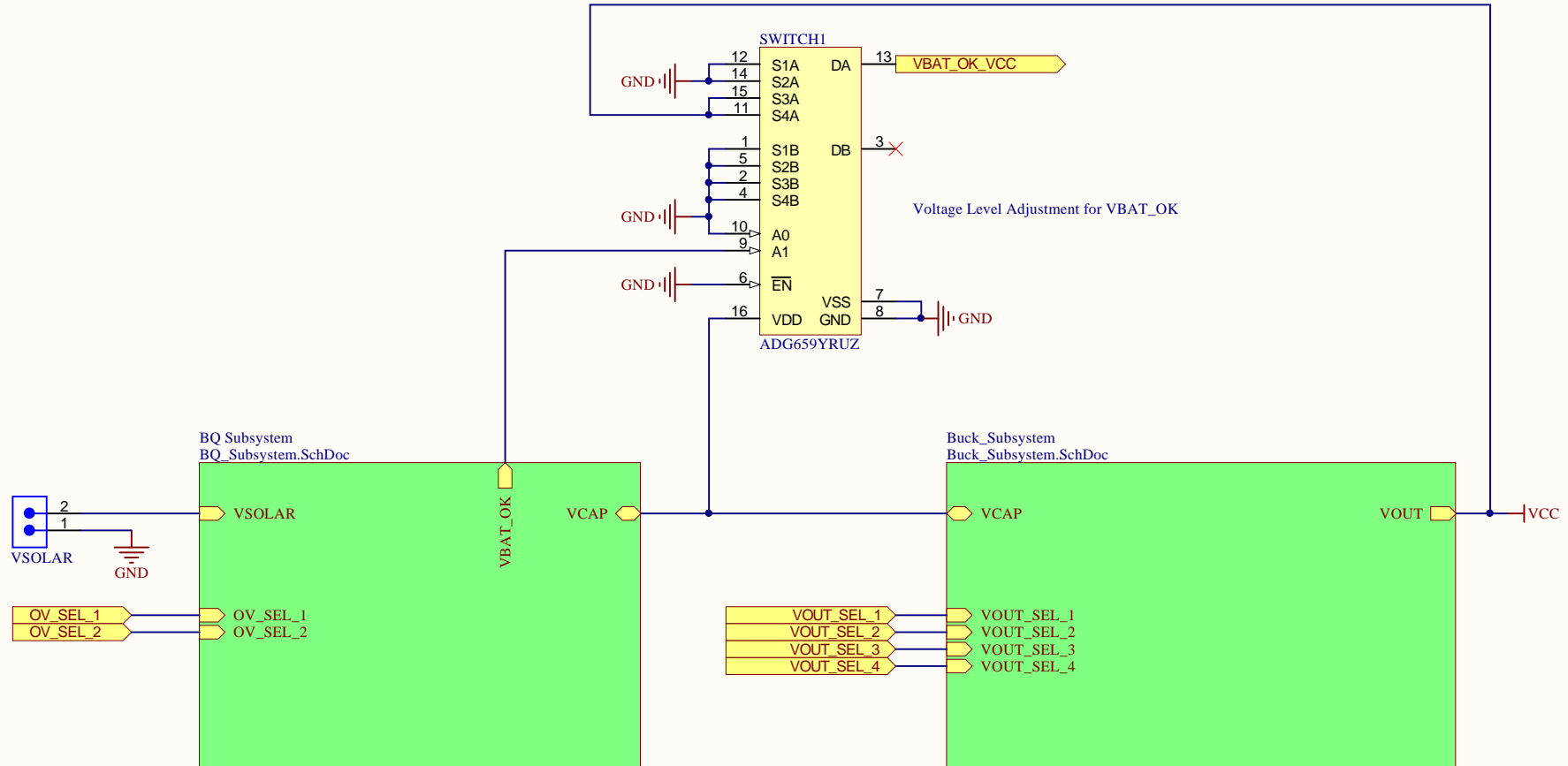
R105
7M15
GND

R106
GND

solder only if additional hysteresis needed



Energy Management Unit (EMU)



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Project:

Vision Sensor - EMU

Drawing number: *

Rev: *

Date: 28.07.2016 11:33:29

Format:

Laboratory: ETHZ TIK

A4 Q

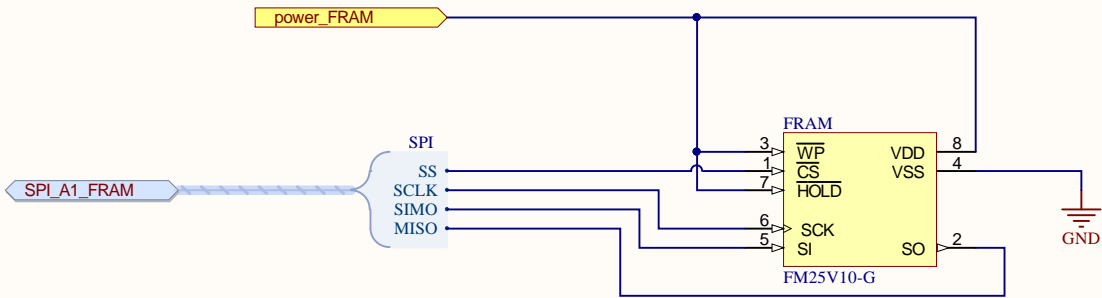
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Sheet: EMU.SchDoc

Page * of *

File: C:\Users\user\Dropbox\Masterthesis\MA_TransientOpticalFlow\pcb\MSP432_prototype\EMU.SchDoc

FRAM Memory Chip



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Drawing title:

Vision Sensor - MSP432 Baord - FRAM Chip

Drawing number: * Rev. *

Date: 28.07.2016 11:33:29

Format:

A4 Q

Laboratory:

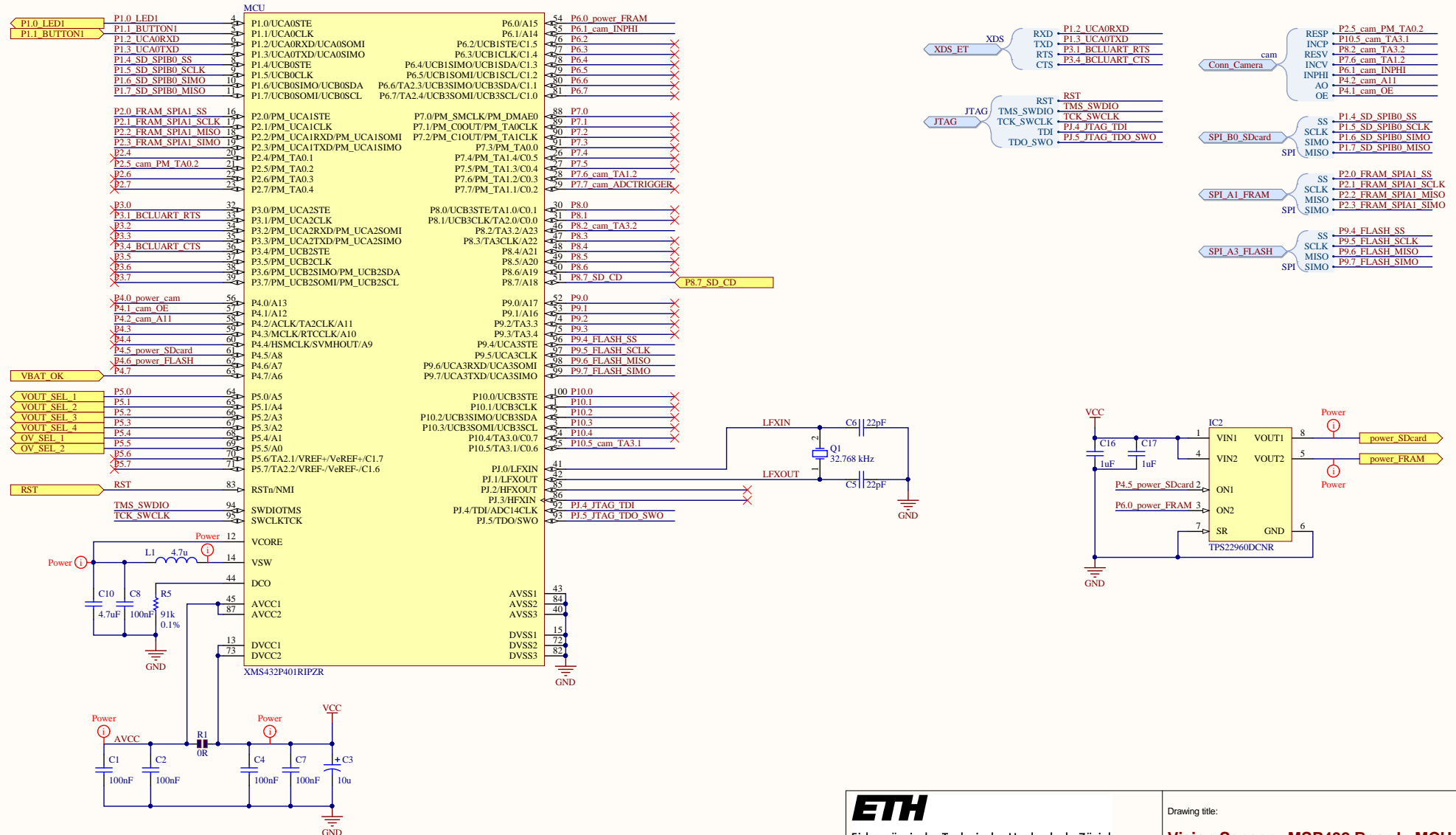
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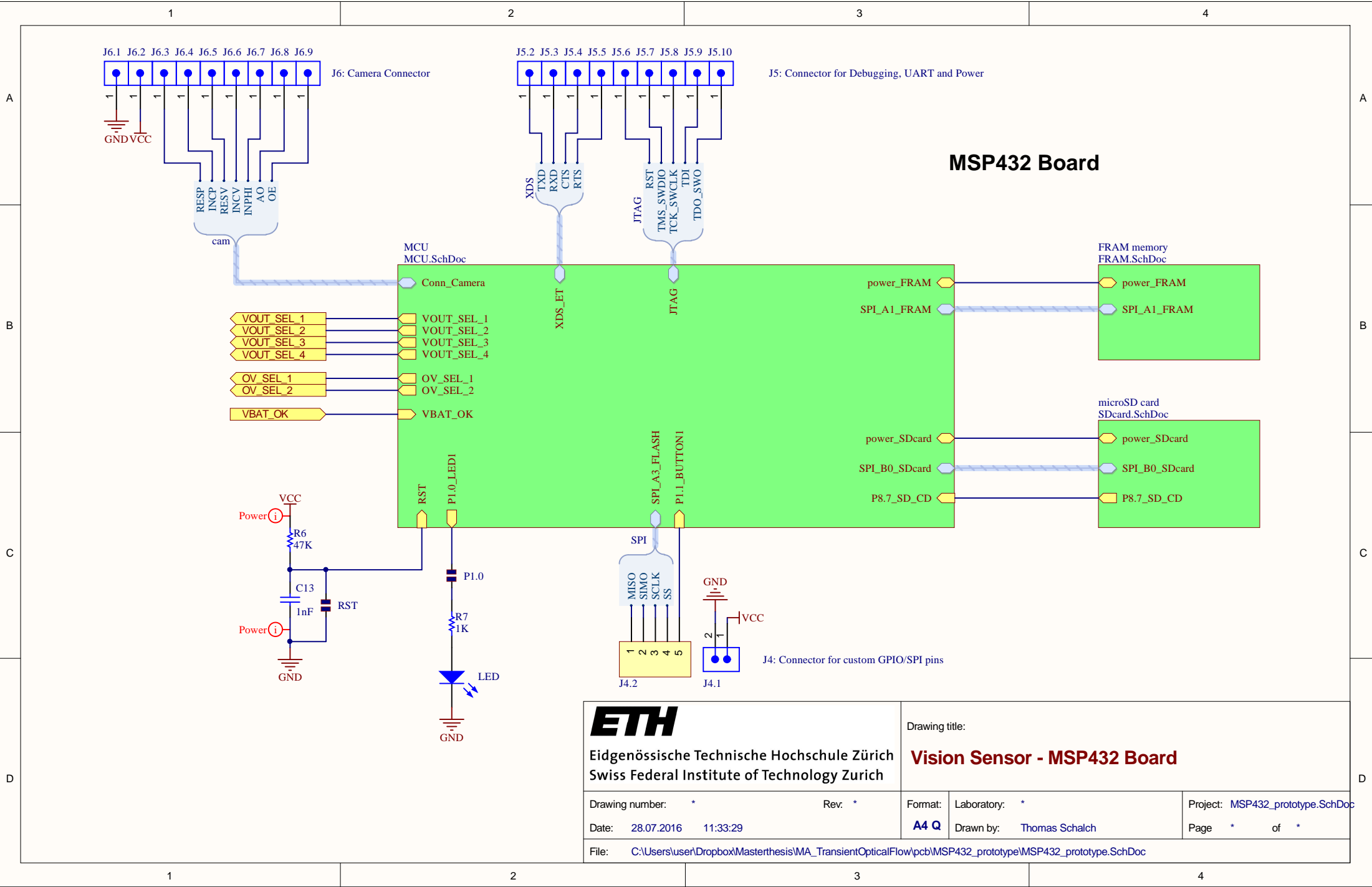
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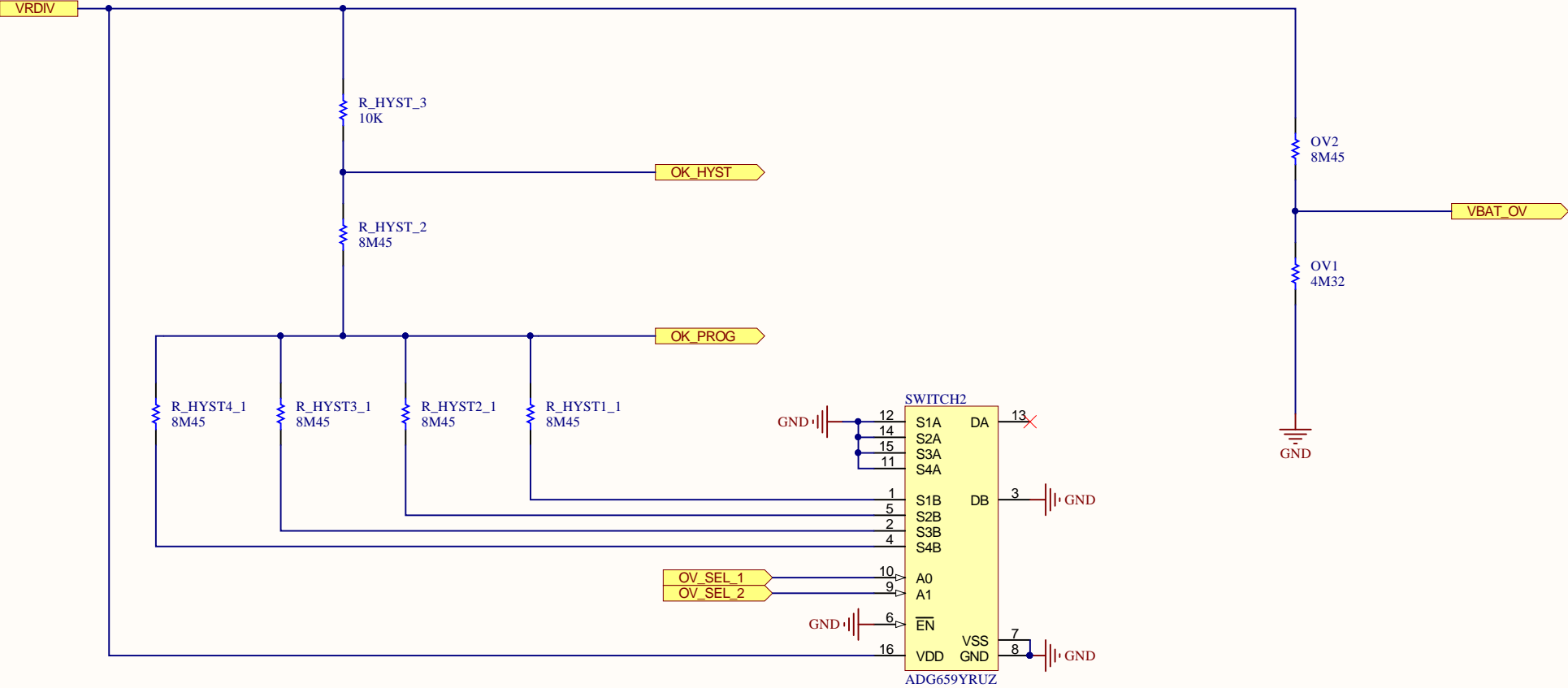
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MSP432 MCU





BQ Overvoltage and Hysteresis Selection



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Project:

Vision Sensor - EMU - OverVoltage Settings

Drawing number: * Rev. *
Date: 28.07.2016 11:33:29

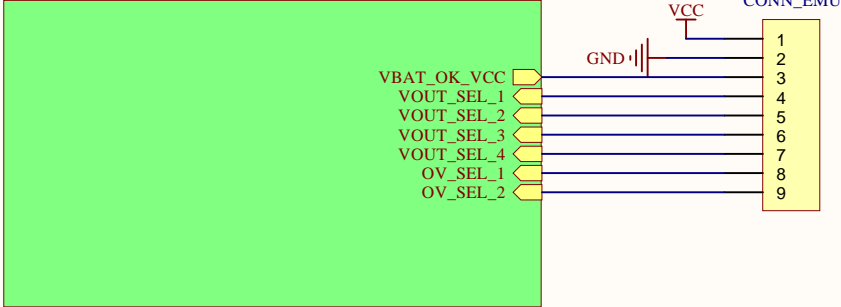
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A4 Q Drawn by: Thomas Schalch

Sheet: OverVoltage.SchDoc
Page * of *

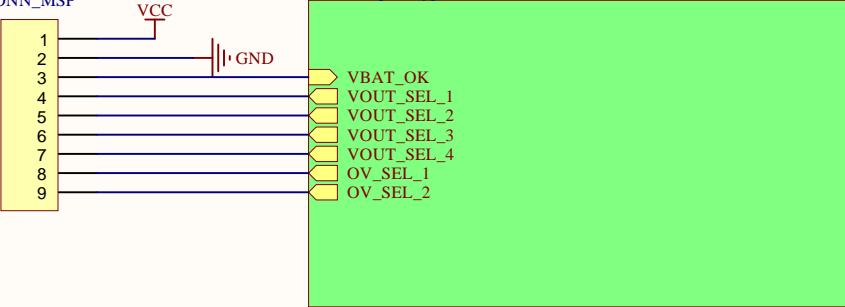
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Vision Sensor Prototype

EMU
EMU.SchDoc

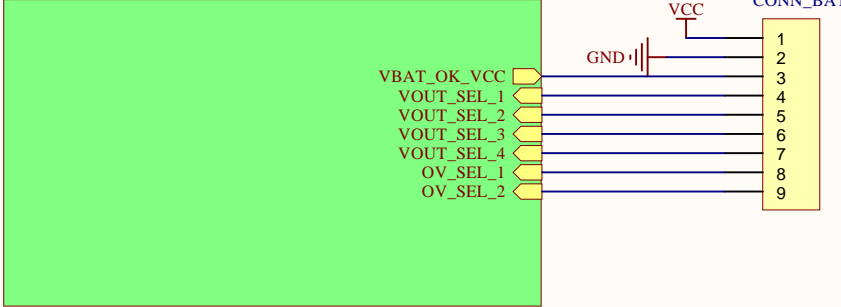


CONN_MSP



MSP432_Board
MSP432_prototype.SchDoc

Battery Pack
BatteryPack.SchDoc



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Drawing title:

Vision Sensor Prototype

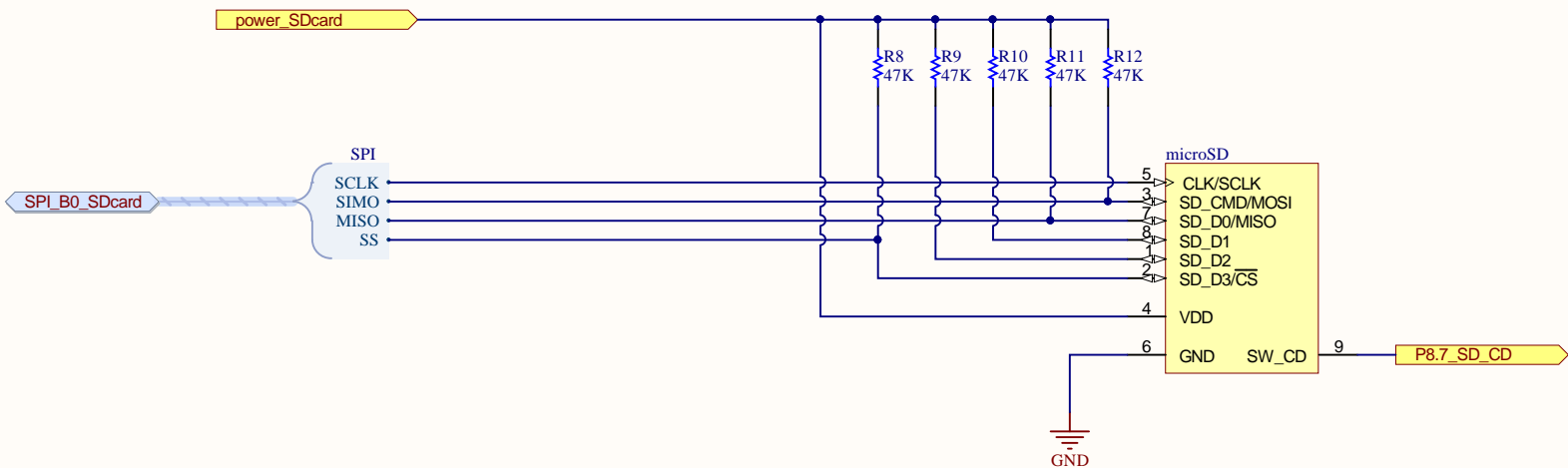
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Date: 28.07.2016 11:33:29

Format: A4 Q Laboratory: *
Drawn by: Thomas Schalch

Project: Prototype.SchDoc
Page * of *

File: C:\Users\user\Dropbox\Masterthesis\MA_TransientOpticalFlow\pcb\MSP432_prototype\Prototype.SchDoc

microSD card memory



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Drawing title:

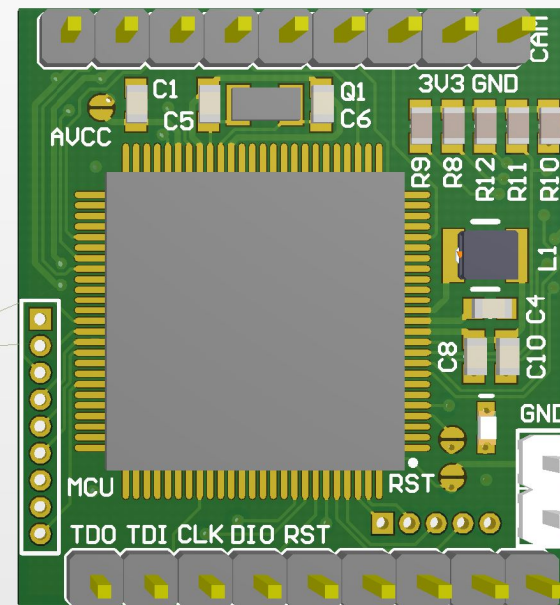
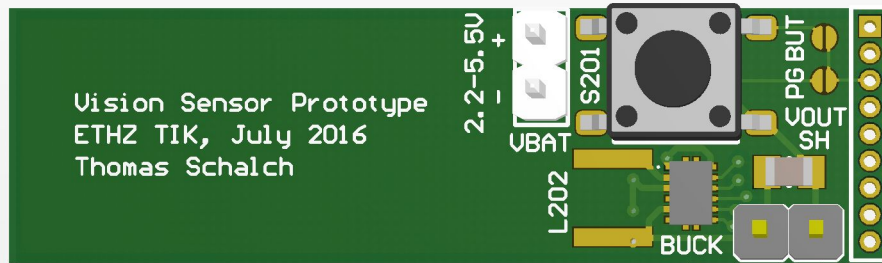
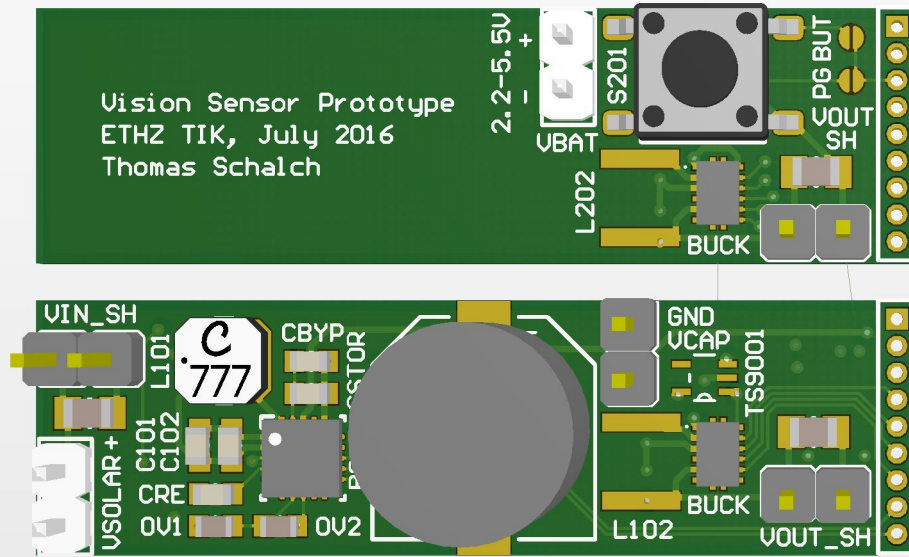
Vision Sensor - MSP432 Board - microSD

Drawing number: * Rev. *
Date: 28.07.2016 11:33:29

Format: A4 Q Laboratory: *
Drawn by: Thomas Schalch

Project: SDcard.SchDoc
Page * of *

File: C:\Users\user\Dropbox\Masterthesis\MA_TransientOpticalFlow\pcb\MSP432_prototype\SDcard.SchDoc



Vision Sensor Prototype
ETHZ TIK, July 2016
Thomas Schalch

