

Raven-I Sentinel

Version 1.0

Version Goal

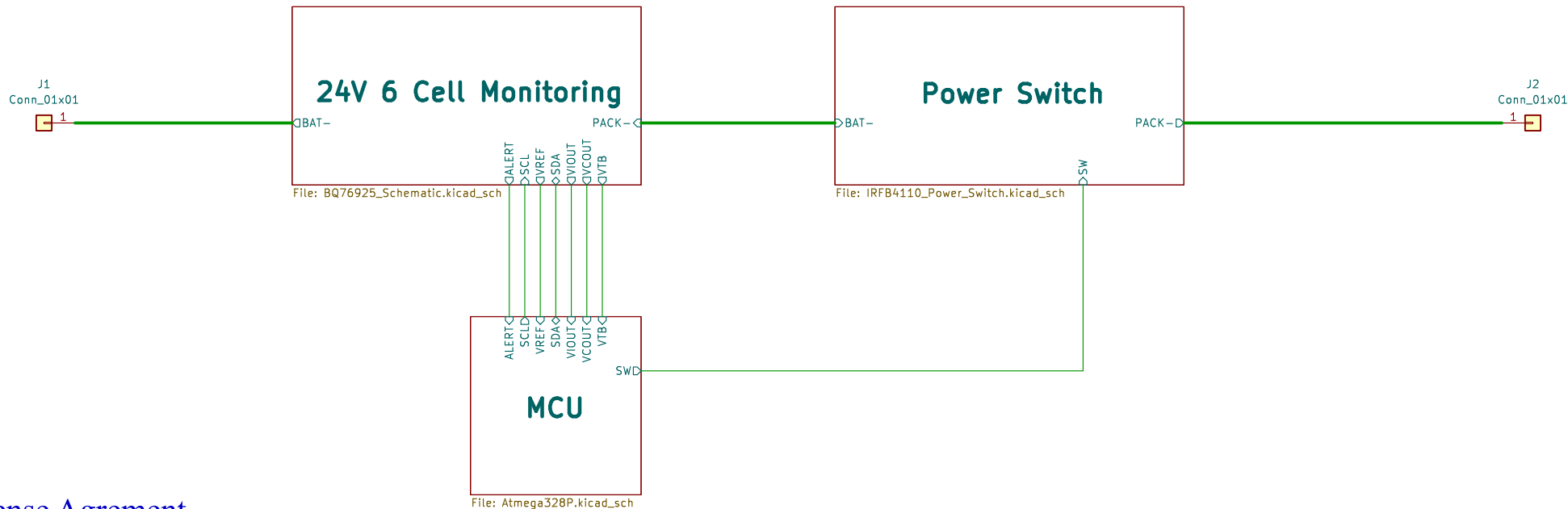
1. Kick start development of a value-oriented, robust BMS with external communication capabilities.

Legend

General Comments

Justification

Warnings



License Agreement

1. This PCB design is licensed under CC BY-SA 4.0
2. This PCB design is provided "as-is," without warranty of any kind, either express or implied, including but not limited to the warranties of merchantability, fitness for a particular purpose, or non-infringement.
3. The author(s) shall not be held liable for any damages, injuries, or other consequences arising from the use of this design.

$$\overline{T_{\zeta \text{NBTE}_{\kappa}} =}$$

M S Ali

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Title: Raven-I Sentinel

Size: A4

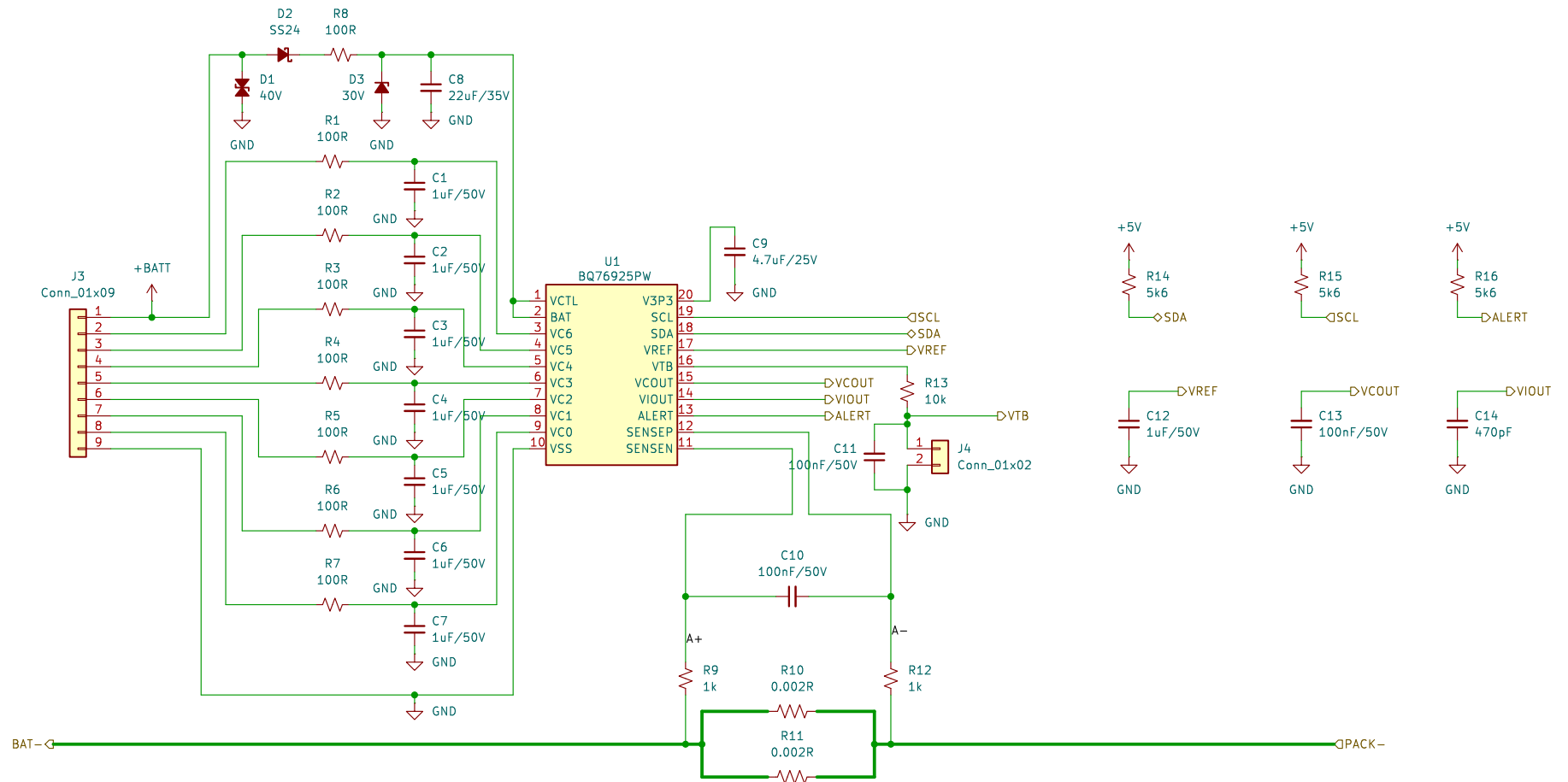
Date: 2024-11-23

KiCad E.D.A. 8.0.1

Rev: 1.0

Id: 1/4

BQ76925 Schematic 24V 6 Cell Monitoring


$$\overline{T_{\zeta}NBTE_{\kappa}}=$$

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Title: Raven—I Sentinel

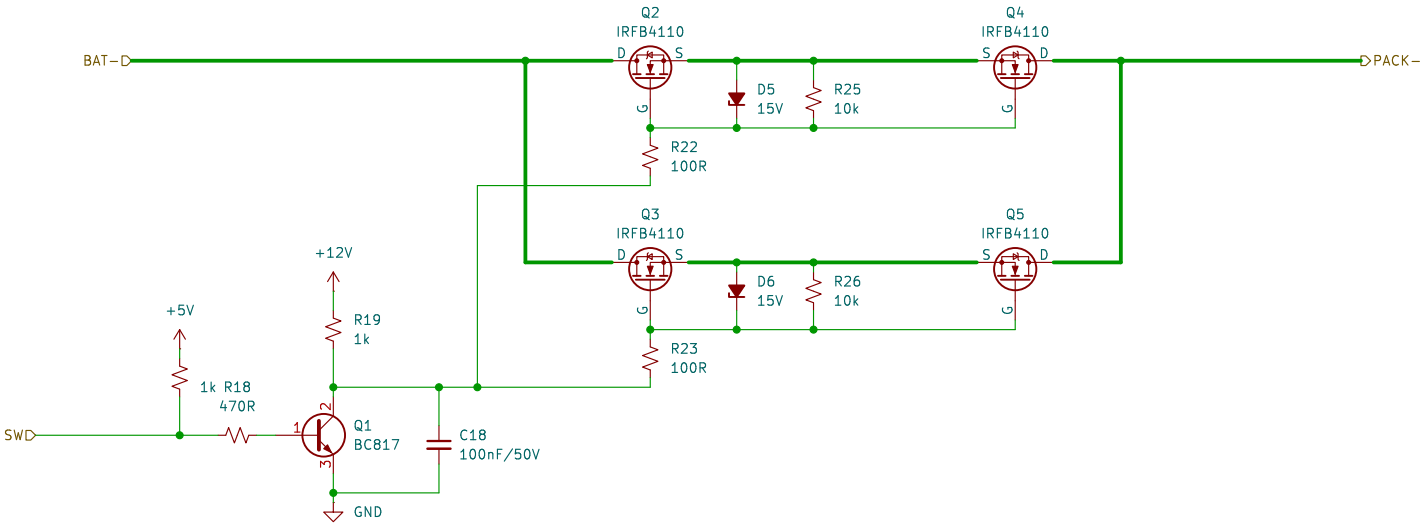
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KiCad E.D.A. 8.0.1

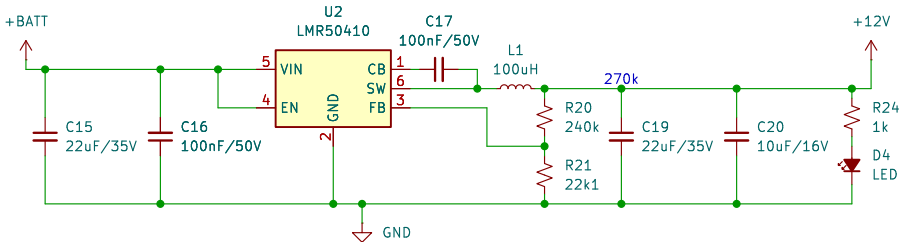
Rev:

Id: 2/4

20A Power Switch



VBAT to 12V



T_CNBTEκ=

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Sheet: /Power Switch/
File: IRFB4110_Power_Switch.kicad_sch

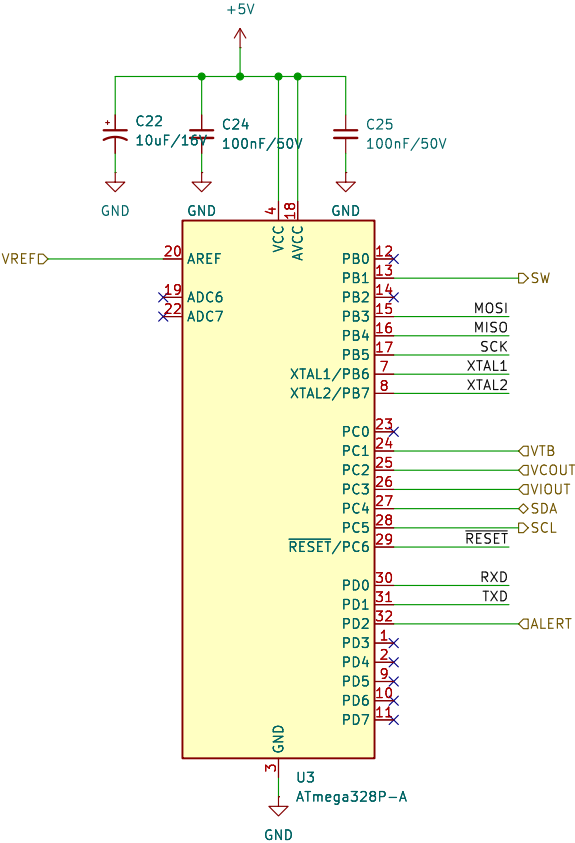
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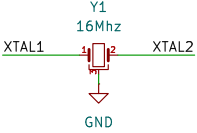
KiCad E.D.A. 8.0.1

Rev:
Id: 3/4

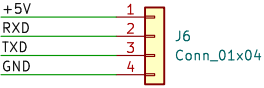
MCU



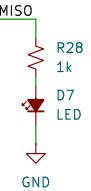
MCU - Resonator



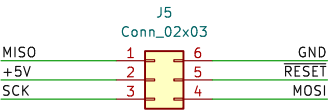
MCU - UART



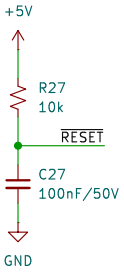
MCU - TEST LED



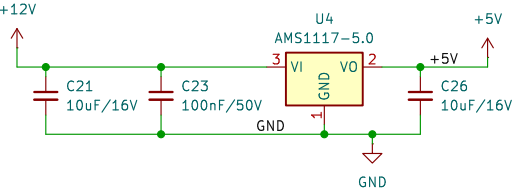
MCU - Programmer



MCU - RESET



12V to 5V LDO



T₅NBTEκ=

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Sheet: /MCU/
File: Atmega328P.kicad_sch

Title: Raven-I Sentinel

Size: A4 Date: 2024-11-23
KiCad E.D.A. 8.0.1

Rev:
Id: 4/4