Raven-I Sentinel

Version 1.0

Version Goal

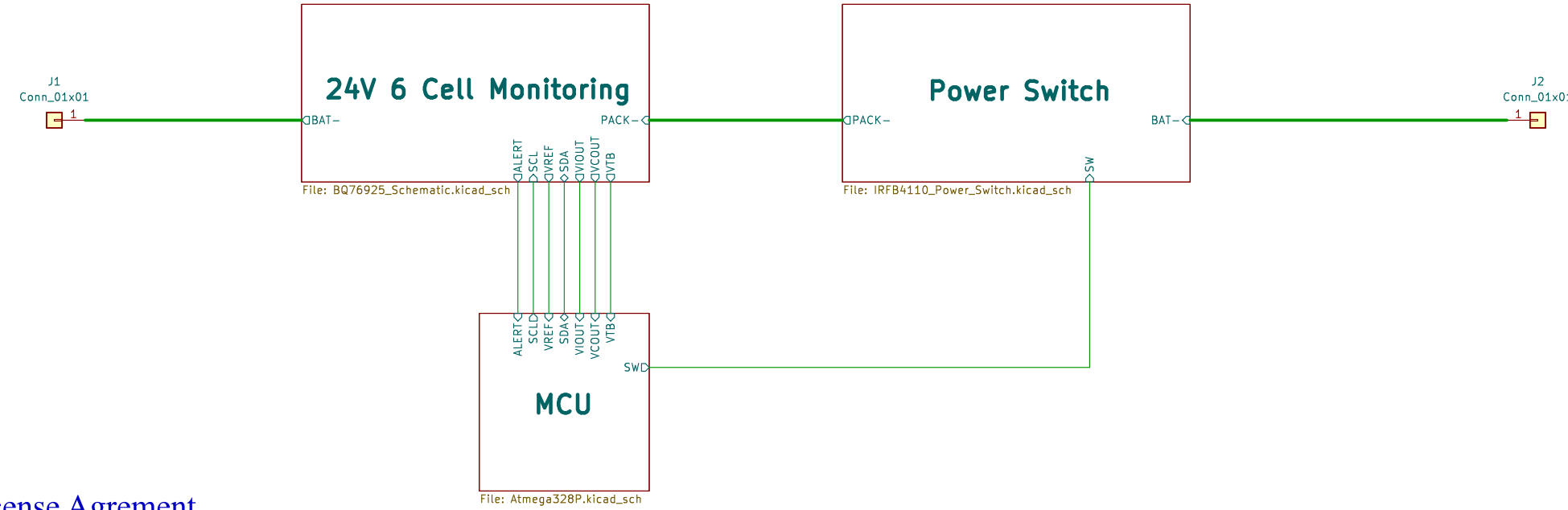
1. Kick start development of a value-oriented, robust BMS with external communication capabilities.

Legend

General Comments

Justification

Warnings



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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.

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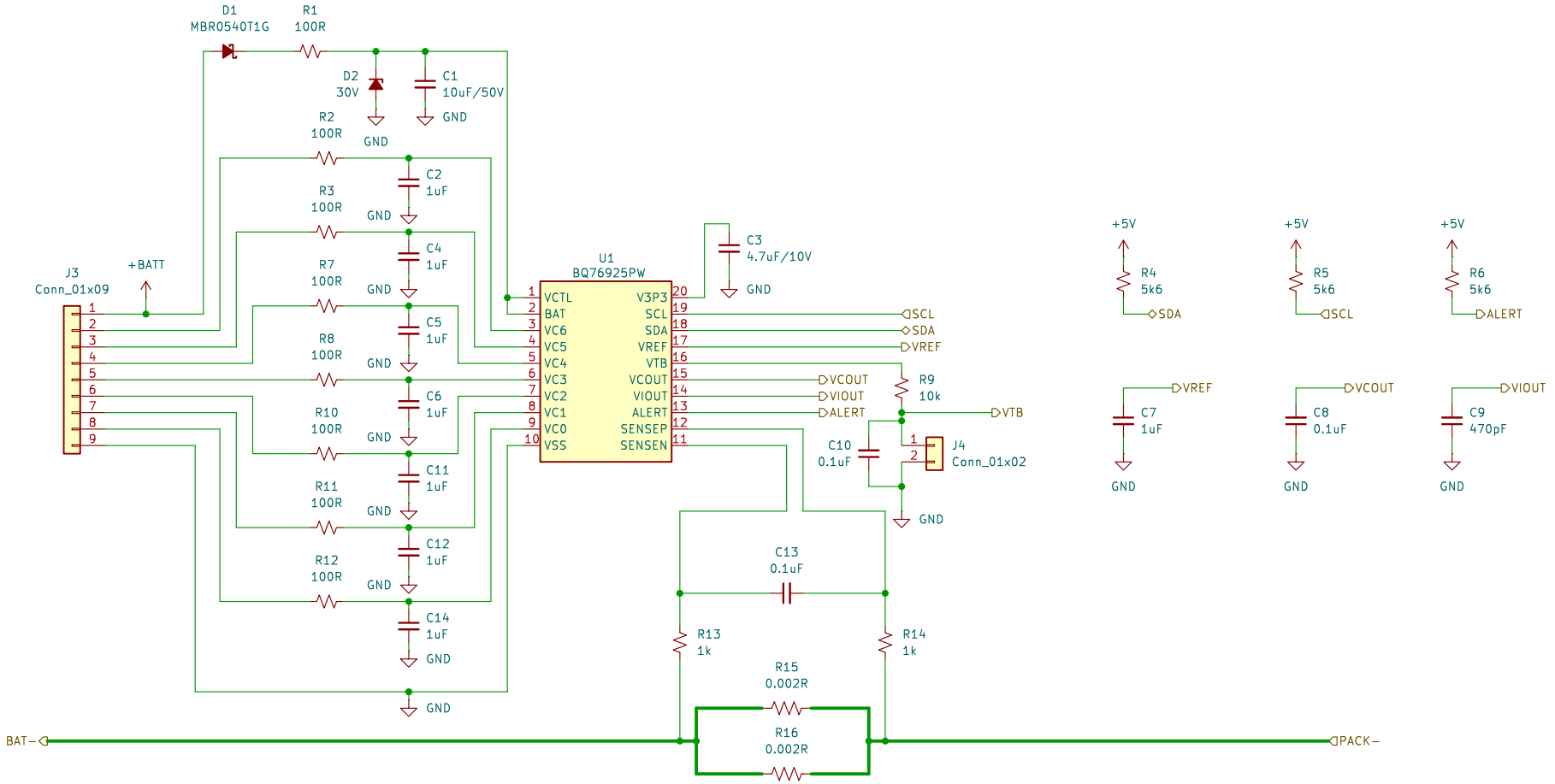
M S Ali

Sheet: /
File: BQ76925_ATMEGA328P_6S_20A_BMS.kicad_sch

Title: Raven−I Sentinel

Size: A4	Date: 2024−11−23	**Rev: 1.0**
KiCad E.D.A. 8.0.1		Id: 1/4

BQ76925 Schematic 24V 6 Cell Monitoring



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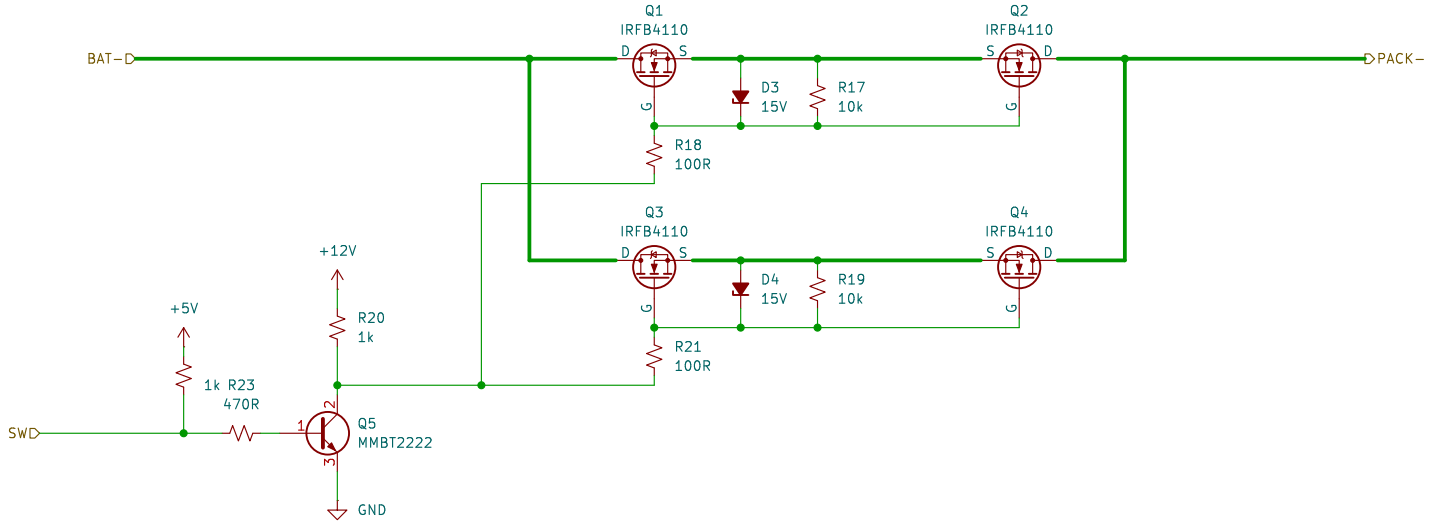
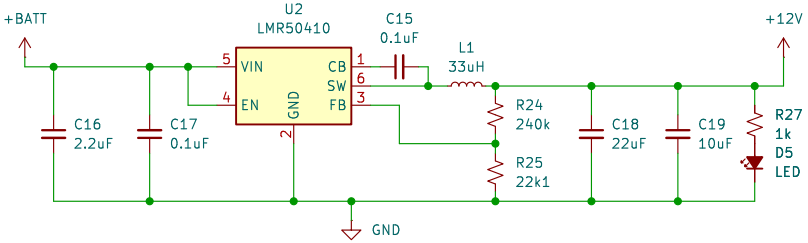
Size: A4	Date: 2024−11−23	**Rev:**
KiCad E.D.A. 8.0.1		Id: 2/4

20A Power Switch



VBAT to 12V



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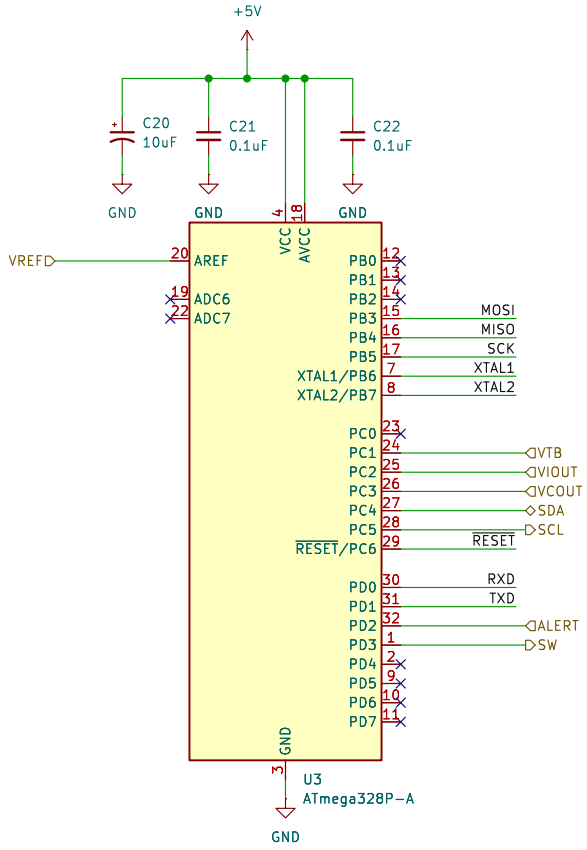
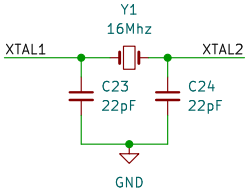
Title: Raven−I Sentinel

Size: A4	Date: 2024−11−23	Rev:
KiCad E.D.A. 8.0.1		Id: 3/4

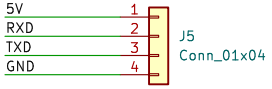
MCU



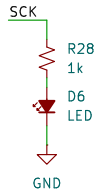
MCU - Crystal



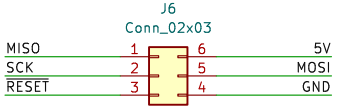
MCU - UART



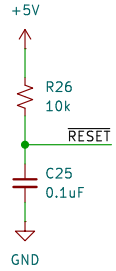
MCU - TEST LED



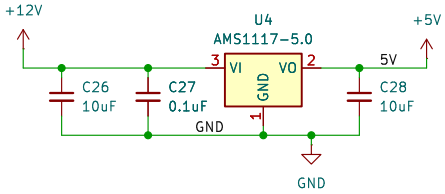
MCU - Programmer



MCU - RESET



12V to 5V LDO



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M S Ali

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Title: Raven-I Sentinel

Size: A4	Date: 2024-11-23	Rev:
KiCad E.D.A. 8.0.1		Id: 4/4