Updates

Blockers

-

Milestones Achieved
- **Mainboard reflow & testing - VR, Haoran, Haoen, Zhaonan**
- **3x RP2040 boards boot - VR**
- **Solar panel power tested (0.5W under best conditions) - VR**
- **Current sensor, coil driver + magnetorquer, light sensors, validated - VR**
- **Populated Subassembly, tested - Varun**
- **2 working mainboards(1 with untested radio), testing with XY boards - Perrin**
- **Cleaned up IMU, RTC drivers - Perrin**
- **Z+/Z- board reflow & testing - Haoran, Haoen, Zhaonan**

Looking ahead
- **Z- board Burn wires testing - Haoran, Zhaonan**
- **Powering Mainboard with Batteryboard - Haoran, Zhaonan**
- **Power testing on solar panels - VR**
- **Battery fuel gauge driver - Perrin**
- **Restructure firmware error handling - Perrin**
- **Jetson <-> mainboard communication - Perrin**
- **Flatsat soon hopefully :)**

Interfaces

- **TVAC Planning with Meche Team**

The CAN-Ban 🦅🦅

Backlog 23 / 5 — Estimate: 47.5
This item hasn't been started

Draft
Debug/Design of Jetson Orin Carrier Board
4

Avionics-Cameraboard #5
Figure out RTC Setup for Camera Board
0.5

Avionics-Cameraboard #4
Layout Power, SD Card, USB Connection
1

Draft
Finish Layout of Board
2

Draft
Camera Board SW: uController Interface
4

Draft
Camera Board SW: Mainboard RTC Interface
2

Ready 0 — Estimate: 0
This is ready to be picked up

In progress 11 / 3 — Estimate: 20.5
This is actively being worked on

Draft
Update State Chart with GNC and Comms
3

Draft
Build subassembly on plain carrier board
M

Draft
Finish and Order the USB Camera Hub
M

Draft
RP2040 Mainboard
13

Draft
DRV8235 Driver
1.5

Draft
Software Bringup to Interface with OpenMV Camera
3

In review 0 / 5 — Estimate: 0
This item is in review

Done 26 — Estimate: 51.5
This has been completed

Draft
LoRa Dev Boards

Draft
Deployable schematic and PCB Design

Draft
Argus-2 Battery Board
10

Draft
Solar Panel board & Power Testing
15

Draft
Finish Deployable Boards Reflow

Draft
Update HAL for v1.1 mainboard
10

Draft
Flash L4T Onto Jetson Orin Nano Carrier Board