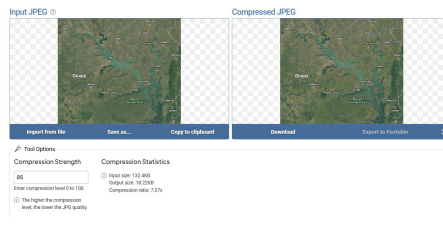


10/09/2024

Updates

- Tested argus-1 GPS module successfully after doing some repairs.
- Resolved the issue with the new radio module data transfer with while loop.
- New GS board ordered.
- Tuned 2x antennas with VNA
- Fixed the config issues with anechoic chamber
- Jpeg compression of images



Blockers

- EE department holding up GPS purchase

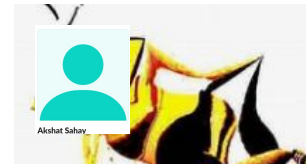
Upcoming

- Configure GPS driver to correctly manage locked and unlocked NMEA sentences.
- Using RPi python library for GS.
- Start looking into image data transfer and communication protocol.
- Make/order board for turnstile antenna
 - Make/test turnstile antenna
- Another ridge test
- Characterize antenna with anechoic chamber
- Develop software to use tinyGS with ground station

Interfaces

- Avionics & Mechanical:
 - GPS antenna - SMD antenna or connectorized?

"Bees are actually very well built" -akshat <3



```
Fix timestamp: 10/8/2024 23:10:09
Latitude: 40.386627 degrees
Longitude: -80.039032 degrees
Precise Latitude: 40 degs, 23.1978 mins
Precise Longitude: -80 degs, 2.3429 mins
Fix quality: 1
# satellites: 12
Altitude: 368.4 meters
Speed: 0.1 knots
Track angle: 0.0 degrees
Horizontal dilution: 1.4
Height geoid: -33.1 meters
```

Kanban

Comms-Opss-SC

Backlog

Team capacity

Current iteration

Roadmap

My items

Filter by keyword or by field

Backlog

1

Estimate: 0.5

This item has yet to be scheduled

Draft

Configure GPS driver

P20.5S

Todo

2/5

Estimate: 1.25

This item hasn't been started

Draft

Order GPS Antenna

P10.25XS

Draft

Anechoic Chamber Testing

P11ML

Comms-Opss-SC

Backlog

Team capacity

Current iteration

Roadmap

My items

New view

Filter by keyword or by field

Backlog

0

Estimate: 0

This item is not scheduled yet.

Todo

4/5

Estimate: 3

This item hasn't been started

Draft

define database (document)

P00.5M

Draft

find raspberry pi drivers for radio module

P10.5S

Draft

work with current experimental comms setup

P11M

Draft

develop APIs

P11M

In Progress

3/5

Estimate: 4.5

This is actively being worked on

Draft

Comms-GS-board #1

P02M

Draft

Order GS Board

P10.5S

Draft

Read datasheets for radio modules

P10.5S

Draft

Database Interface

P22L

Done

1

Estimate: 1

This has been completed

Draft

Test Arduino Drivers for Radio Modules

P11S

In Progress

5/5

Estimate: 5.75

This is actively being worked on

Draft

Turnstile Antenna

P00.5S

Draft

Order GPS Module

P10.25XS

Draft

Link Budget

P13L

Draft

Test argus-1 prototype in anechoic chamber

P11M

Draft

GPS Antenna Trade Study

P11M

Done

6

Estimate: 4

This has been completed

Draft

Prototype argus-1 v-dipole

P01.5M

Draft

Comms-GPS #1

P10.25S

Draft

VNA Purchase

P10.5S

Draft

Ask vision for upper bound of data per image

P10.25XS

Draft

VNA Testing

P10.5M

Comms-Opss-SC

Backlog

Team capacity

Current iteration

Roadmap

My items

Filter by keyword or by field

Backlog

1

Estimate: 0.5

This item has yet to be scheduled

Draft

Configure GPS driver

P20.5S

Todo

2/5

Estimate: 1.25

This item hasn't been started

Draft

Order GPS Antenna

P10.25XS

Draft

Anechoic Chamber Testing

P11ML