# 10/30/2024

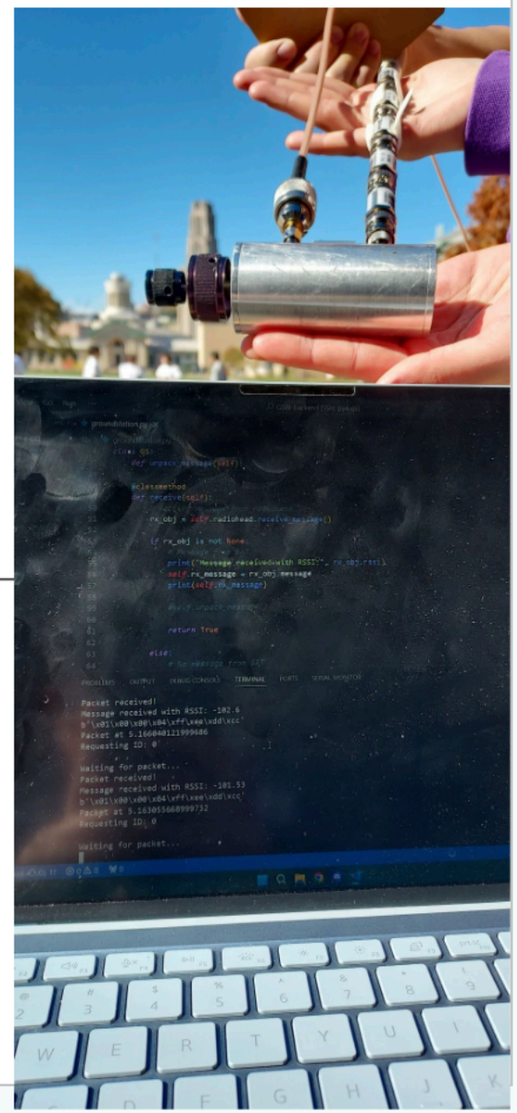
```
Parsed Data:
======================================
vdop: 1.13
tow: Wednesday, 02:18:17.00 (hh:mm:ss.ss)
fix_mode: 3D fix
gps_week: 2338
latitude: 40° 23' 11.97" N
gdop: 1.7
ecef_x: 841574.75 m
ecef_y: 38157760.00 m
ecef_vy: 42949664.00 m/s
ecef_vx: 0.00 m/s
longitude: 349° 27' 27.51" E
pdop: 1.41
ecef_vz: 0.00 m/s
ecef_z: 4110997.00 m
number_of_sv: 21
ellipsoid_alt: 333.10 m
message_id: 168
mean_sea_lvl_alt: 366.20 m
hdop: 0.85
tdop: 0.95
======================================
```

## Updates

- GPS driver + parser works!
- Ridge testing successful!!!
  - Attenuation a bit sus?
  - Avg -63dBm RSSI at 318m w/ no added attenuation
  - Avg -100dBm RSSI at 318m w/ -80dB of added attenuation
- Improved comms FSW for file transfers from satellite to GS.
- Created new repo for GS driver w/ E22-900M30S
- Started looking into GS hardware components and circuit
- Connect RaspberryPi to google cloud bucket, upload and download image

## Blockers

- Waiting on GPS lock box solution and board to mount it to
- Waiting for Z- board to arrive
- Delivered wrong GS board



## Upcoming

- Unlocked GPS testing??
- Build another ground station
- Test the GS code for sending and receiving messages

## Interfaces

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