

Communications Subsystem - Spring 2025 Milestones

1. **Full System Test: Perform a successful ridge test in a location with clear LoS - Jan 31st, 2025**
2. SC Software: Integrate comms with CDH with a robust, noise-resistant protocol - Jan 31st, 2025
 - Issue: Improve communications bit error rate (BER) tolerance
 - Issue: Improve sanity checking for received packets (length, packet structure etc.)
 - Issue: Integrate comms with CDH for command uplinking
3. GS Hardware: Integrate all hardware into the current GS design - Feb 15th, 2025
 - Issue: Integrate LNA in the GS hardware
 - Issue: Test GS Output Power using RF Analyzer
4. GS Infrastructure: Develop infrastructure to display mission data on dashboard - Feb 28th, 2025
 - Issue: Finish development of the database and dashboard

GPS Subsystem - Spring 2025 Milestones

1. SC Software: Integrate GPS FSW into the current FSW build - Jan 31st, 2025
 - Issue: Integrate GPS into current FSW build
2. GNSS Testing: Verify unlocked GPS module works at orbital speeds - March 15th, 2025
 - Issue: Setup SDR for spoofing GPS signals
 - Issue: Verify GPS works at orbital speeds with SDR testing
 - Issue: Verify GPS FSW works with spoofed signal