**GPS:**

TinyGPS gps;

bool enabled = false;

SoftwareSerial bluetoothSerial(BLUETOOTH\_TX\_PIN, BLUETOOTH\_RX\_PIN);

SoftwareSerial nss(GPS\_TX\_PIN, 255);

GeoLoc checkGPS() {

Serial.println("Reading onboard GPS: ");

bool newdata = false;

unsigned long start = millis();

while (millis() - start < GPS\_UPDATE\_INTERVAL) {

if (feedgps())

newdata = true;

}

if (newdata) {

return gpsdump(gps);

}

GeoLoc luggageLoc;

luggageLoc.lat = 0.0;

luggageLoc.lon = 0.0;

return luggageLoc;

}

// Get and process GPS data

GeoLoc gpsdump(TinyGPS &gps) {

float flat, flon;

unsigned long age;

gps.f\_get\_position(&flat, &flon, &age);

GeoLoc luggageLoc;

luggageLoc.lat = flat;

luggageLoc.lon = flon;

Serial.print(luggageLoc.lat, 7); Serial.print(", "); Serial.println(luggageLoc.lon, 7);

return luggageLoc;

}

bool feedgps() {

while (nss.available()) {

if (gps.encode(nss.read()))

return true;

}

return false;

}