



The robot was about a meter off of these waypoints. Mostly in the grass.

More testing would help. Sometimes we get 0 in the data.

```
130 if (millis() - pollingStartTime > 1000)
131 {
132     myGPSData = readNavPVT(); → GPS page 47 + 53
133     pollingStartTime = millis();
134
135     // Set the "current" position to point 1 in the GPS pair.
136     myGPSPair.lat1_L = myGPSData.lat;
137     myGPSPair.lon1_L = myGPSData.lon;
138
139     // Get the information we need to control the robot
140     distanceBetween = myHeadingControl.GetDistanceBetween(myGPSPair);
141     targetHeading = myHeadingControl.GetTargetHeading(myGPSPair);
142     currentHeading = getHeading2() - averageGPSerror; → BNO page 36 + 37
143     currentHeading = fixHeading(currentHeading);
144     headingError = myHeadingControl.GetHeadingError(currentHeading, targetHeading);
145     gpsError = currentHeading - (myGPSData.heading / 100000.0); // could flip
146 }
```

Comparing Current, Target, and GPS headings from
06/17/2024

