22.1.2017 **Experiments:**

All experiments are at 2.5 m height

1. 1st full experiment: walking on a straight line back and forth while the phone ~10 deg
   1. 5x2 m, 12.81 sec 🡪 20.44 sec 🡪 31.82 sec, **12:15.03**
   2. 10x2 m, 18.64 sec 🡪 25.58 sec 🡪 40.61 sec , **12:16.35**
   3. 20x2 m, 30 sec 🡪 34 sec 🡪 1:05 min, **12:17.40**
2. IMU Drift error with no movement: lift the phone -> stand -> place back to the same spot
   1. 20 sec, **12:19.12**
   2. 60 sec, **12:20.01**
   3. 120 sec, **12:21.13**
   4. 3 Circles at the same spot, **12:23:52**
3. 3rd full experiment: walking in different size of squares
   1. 34x10 m, 38.25 🡪 42.13 🡪 54.96 🡪 58.07 🡪 1:31.63 🡪 1:35.37 🡪 1:45.13, **12:27.44**
   2. 60x10 m, 1:04.57 🡪 1:07.88 🡪 1:21.53 🡪 1:24.67 🡪 2:23.17 🡪 2:27.19 🡪 2:38.55, **12:30.15**
   3. 34x10 m back and forth, 31.35 🡪 37.46 🡪 49.2 🡪 51.24 🡪 1:25.47 🡪 1:27.87 🡪 1:37.74 🡪 1:42.56 🡪 1:54.07 🡪 1:56.67 🡪 2:27.04 🡪 2:30.08 🡪 2:40.94 🡪 2:40.94 🡪 2:43.42 🡪 3:14.93, **12:34.02**
4. 4th full experiment: different place to test (height 2 m)
   1. 31x2 m, 34.9 🡪 43.0 🡪 77.8, **10:26.42**
   2. 31x6.2 m, 37.5 🡪 43.5 🡪 47 🡪 50.9 🡪 84.7 🡪 89.8 🡪 98.3, **10:35.29**
5. IMU + OF noise check:
   1. IMU noise check - 04:10 min, **11:11.44**

34/66m

10m

5m

5m