

AVL 주간 세미나

2019/ 01/ 31 이승준

이번 주 한 일

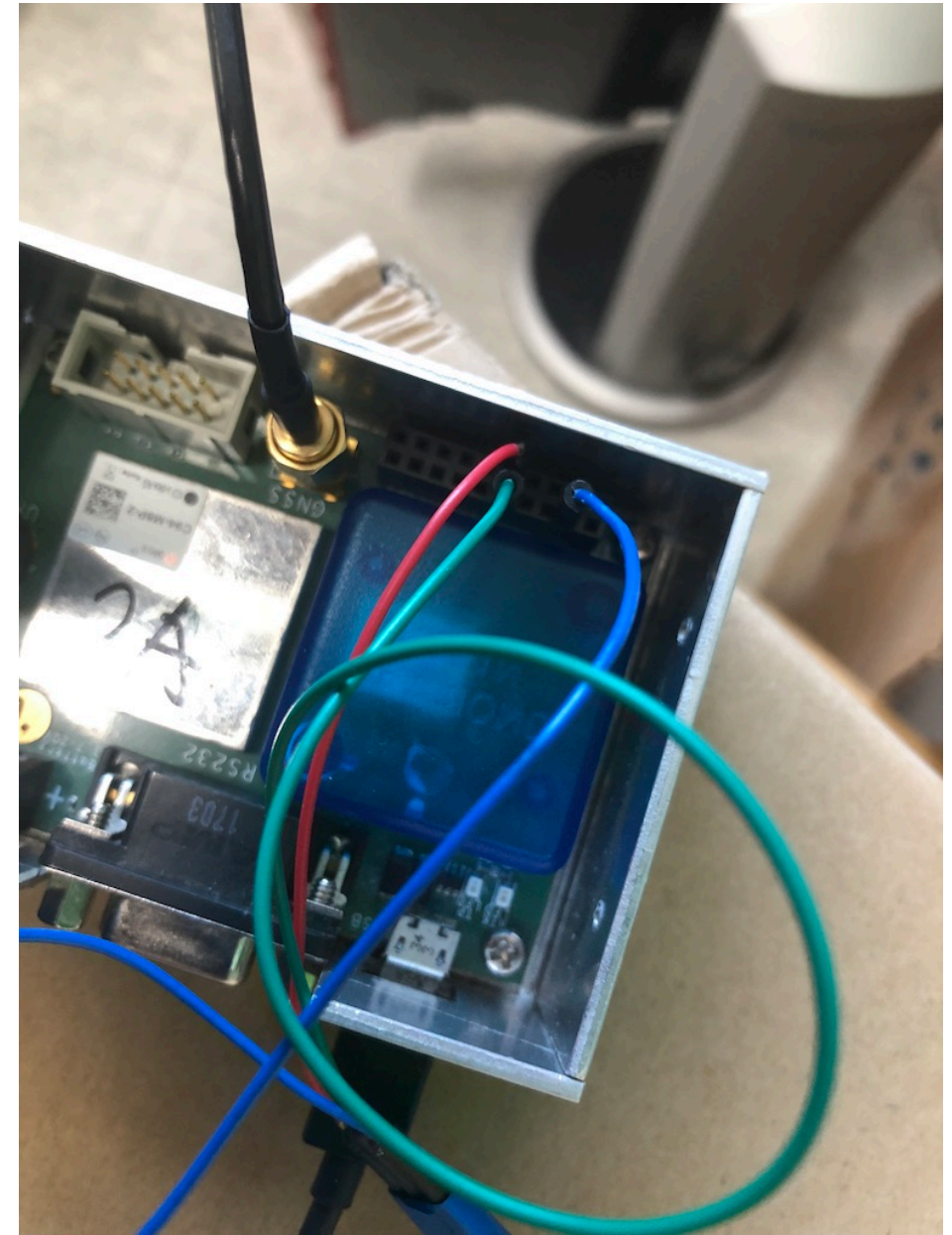
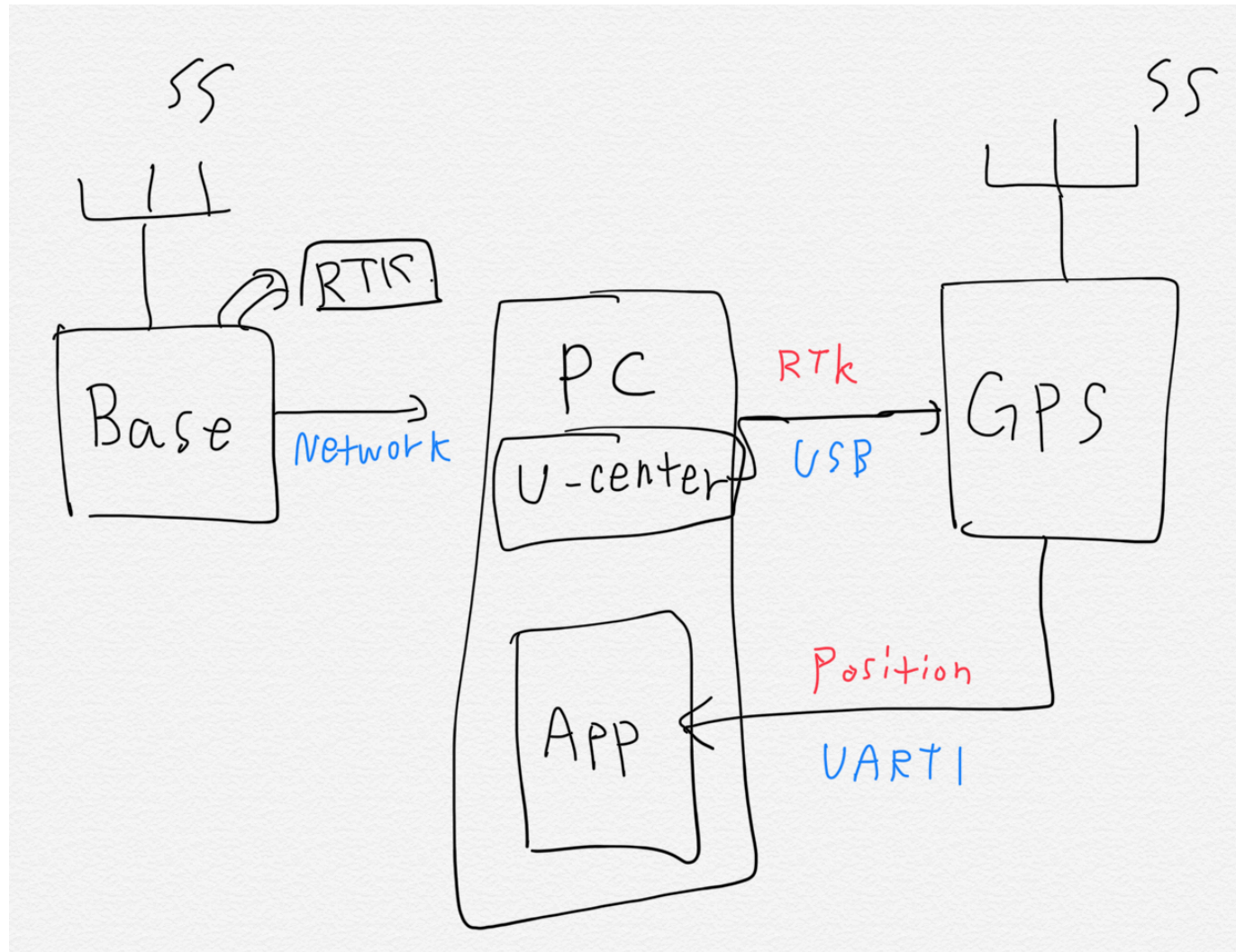
- Dead Reckoning 구현
- ROS 구현 완료(GPS수신, Dead Reckoning, 위도 경도 출력)
- U-center configuration 문서 수정

```
avl@avl: ~/catkin_ws
[ INFO] [1548908556.839797213]: latitude: 36.625532, longitude: 127.457384
[ INFO] [1548908556.889877097]: latitude: 36.625532, longitude: 127.457384
[ INFO] [1548908556.939858529]: latitude: 36.625532, longitude: 127.457384
[ INFO] [1548908556.989932874]: latitude: 36.625533, longitude: 127.457384
[ INFO] [1548908557.039796472]: latitude: 36.625533, longitude: 127.457384
[ INFO] [1548908557.089858539]: latitude: 36.625533, longitude: 127.457384
[ INFO] [1548908557.139897007]: latitude: 36.625533, longitude: 127.457384
[ INFO] [1548908557.189929488]: latitude: 36.625534, longitude: 127.457384
[ INFO] [1548908557.239802189]: latitude: 36.625534, longitude: 127.457384
[ INFO] [1548908557.289916265]: latitude: 36.625534, longitude: 127.457384
[ INFO] [1548908557.339903796]: latitude: 36.625534, longitude: 127.457384
[ INFO] [1548908557.389883277]: latitude: 36.625535, longitude: 127.457384
[ INFO] [1548908557.439842335]: latitude: 36.625535, longitude: 127.457384
[ INFO] [1548908557.489909896]: latitude: 36.625535, longitude: 127.457384
[ INFO] [1548908557.539912402]: latitude: 36.625535, longitude: 127.457384
[ INFO] [1548908557.589893141]: latitude: 36.625535, longitude: 127.457385
[ INFO] [1548908557.639781561]: latitude: 36.625535, longitude: 127.457385
[ INFO] [1548908557.689888794]: latitude: 36.625535, longitude: 127.457385
[ INFO] [1548908557.739880401]: latitude: 36.625535, longitude: 127.457385
[ INFO] [1548908557.789914162]: latitude: 36.625537, longitude: 127.457385
[ INFO] [1548908557.839796622]: latitude: 36.625537, longitude: 127.457385
[ INFO] [1548908557.889888684]: latitude: 36.625537, longitude: 127.457385
[ INFO] [1548908557.939849644]: latitude: 36.625537, longitude: 127.457385
^Cavl@avl:~/catkin_ws$

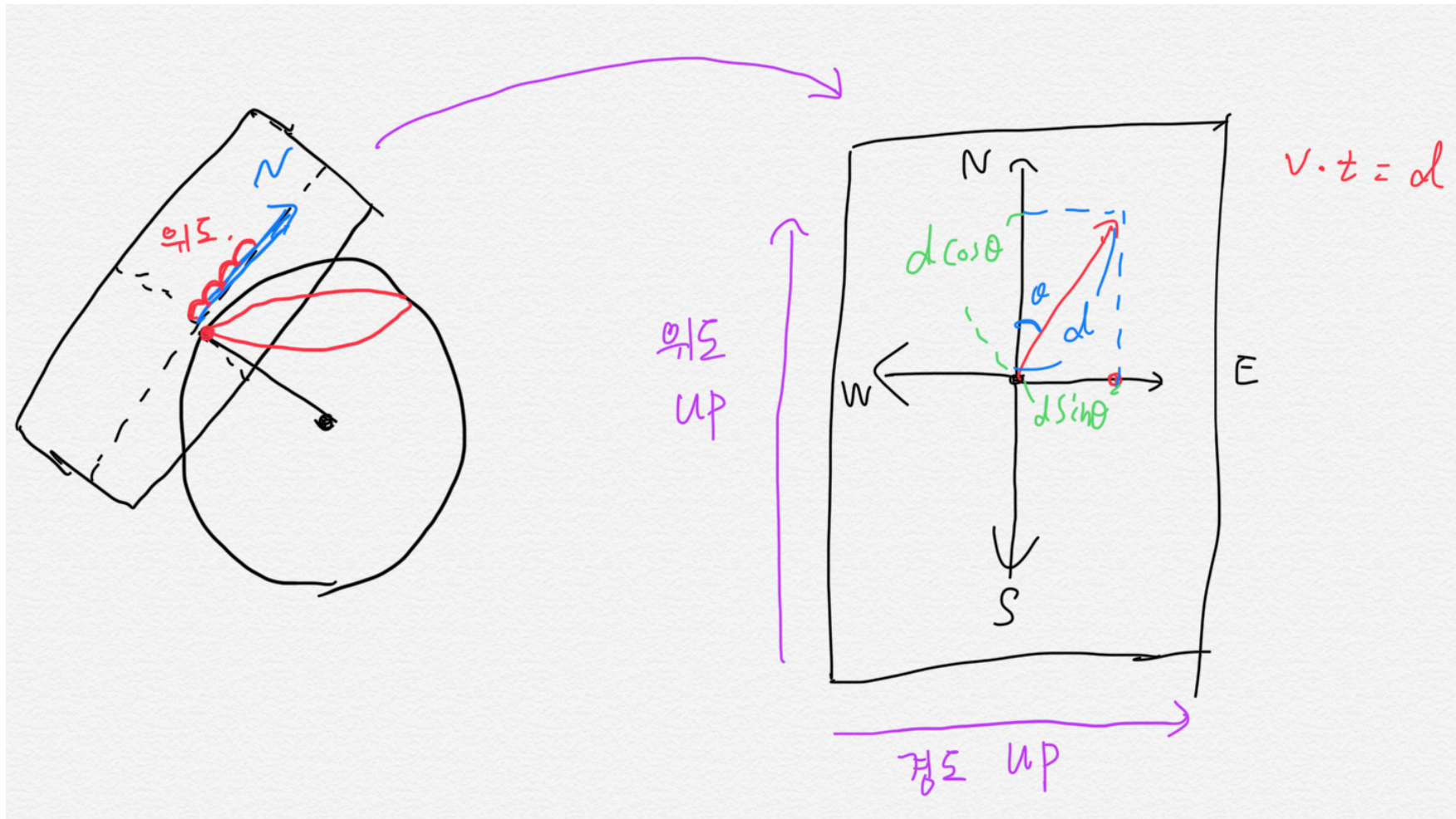
avl@avl: ~
elapsed time: 0.149997
[ INFO] [1548908556.989716399]: Got GPS signal
elapsed time: 5.8806e-05
elapsed time: 0.0499082
elapsed time: 0.009985
elapsed time: 0.150017
[ INFO] [1548908557.189735064]: Got GPS signal
elapsed time: 4.7861e-05
elapsed time: 0.0499467
elapsed time: 0.0099825
elapsed time: 0.149986
[ INFO] [1548908557.389689479]: Got GPS signal
elapsed time: 3.2922e-05
elapsed time: 0.049992
elapsed time: 0.100018
elapsed time: 0.150023
[ INFO] [1548908557.589735891]: Got GPS signal
elapsed time: 3.5629e-05
elapsed time: 0.0499461
elapsed time: 0.0099822
elapsed time: 0.149981
[ INFO] [1548908557.789725888]: Got GPS signal
elapsed time: 5.3285e-05
elapsed time: 0.0499552
elapsed time: 0.0099895
elapsed time: 0.14999
^C[ INFO] [1548908557.989735764]: Got GPS signal

avl@avl: ~
[ INFO] [1548908553.761761201]: Publish GPS Message
[ INFO] [1548908553.953599776]: Publish GPS Message
[ INFO] [1548908554.161474009]: Publish GPS Message
[ INFO] [1548908554.385350125]: Publish GPS Message
[ INFO] [1548908554.561237964]: Publish GPS Message
[ INFO] [1548908554.753096589]: Publish GPS Message
[ INFO] [1548908554.960925783]: Publish GPS Message
[ INFO] [1548908555.152814906]: Publish GPS Message
[ INFO] [1548908555.360679869]: Publish GPS Message
[ INFO] [1548908555.552571964]: Publish GPS Message
[ INFO] [1548908555.760345529]: Publish GPS Message
[ INFO] [1548908555.952203491]: Publish GPS Message
[ INFO] [1548908556.144060496]: Publish GPS Message
[ INFO] [1548908556.383868256]: Publish GPS Message
[ INFO] [1548908556.559762931]: Publish GPS Message
[ INFO] [1548908556.751598251]: Publish GPS Message
[ INFO] [1548908556.943461240]: Publish GPS Message
[ INFO] [1548908557.167298859]: Publish GPS Message
[ INFO] [1548908557.359191205]: Publish GPS Message
[ INFO] [1548908557.551041288]: Publish GPS Message
[ INFO] [1548908557.758942187]: Publish GPS Message
[ INFO] [1548908557.950755698]: Publish GPS Message
[ INFO] [1548908558.150651040]: Publish GPS Message
[ INFO] [1548908558.382481940]: Publish GPS Message
```

이번 주 한 일



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시간 차: 0.2 거리 차: 4.97263 gSpeed: 205.3 itr: 1014
시간 차: 0.2 거리 차: 6.30891 gSpeed: 177.6 itr: 1015
시간 차: 0.2 거리 차: 5.0188 gSpeed: 155.3 itr: 1016
시간 차: 0.2 거리 차: 4.56487 gSpeed: 93.4 itr: 1017
시간 차: 0.2 거리 차: 3.57 gSpeed: 75.7 itr: 1018
시간 차: 0.2 거리 차: 4.90947 gSpeed: 51.5 itr: 1019

mean error: 4.96497

Process finished with exit code 0

앞으로 할 일

- CAN 통신 -> Dead Reckoning 성능 개선
- Open CV 주제 선정 및 학습

| SUN | MON | TUE | WED | THR | FRI | SAT |
|-----|-------------------------------------|-----|-----|-----|-----|-----|
| | Dead Reckoning & ROS implementation | | | | 1 | 2 |
| 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| | CAN communication & Open CV | | | | | |
| 10 | 11 | 12 | 13 | 14 | 15 | 16 |
| 17 | 18 | 19 | 20 | 21 | 22 | 23 |
| 24 | 25 | 26 | 27 | 28 | | |