

Senior Design Weekly Meeting #7

Meeting Minutes

10/19/2020 15:30 - 16:30

CM/TM: Dr. Honggang Zhang

Students: Zhuoming Huang, Lucas Lomba, Yue Sun, Alinson Sanquintin

- **Agenda**

1. Updates from Zhuoming
 - a. BPM-MIMO configuration
2. Other updates and suggestions

- **Notes**

1. Updates from Zhuoming:
 - a. BPM is successfully configured for one TX. Learning to configure BPM with 2TX and 3TX for MIMO.
 - b. Major tasks*
 - i. Generate the elevation-azimuth-range intensity images from SuperRF dataset
 - ii. do some simple experiments to detect distance between two boxes
 - c. Minor tasks
 - i. Calibrate the sensor
 - ii. Learn OptiTrack
 - d. Net/cage setup in flight-test room
 - i. cannot install the net on ceiling/wall (building code violation)
 - ii. Lucas will share some materials we can purchase from McMaster Carr for building a cage
2. Others
 - a. Alinson proposed a CNC machine using optical drive
 - i. remind us the milling machine in the lab (Lucas will check that out)
 - b. Yue is building the dataset from SuperRF, and learning the GAN in pytorch

- **Follow-up**

1. Slider has arrived (need a 24V driver).

2. Understood the structure of SuperRF dataset