Senior Design Weekly Meeting #5

Meeting Minutes

10/05/2020   15:30 - 16:00

CM/TM: Dr. Honggang Zhang
Students: Zhuoming Huang, Lucas Lomba, Yue Sun, Alinson Sanquintin

- **Agenda**

    1. Introduce projects to Alinson

    2. Updates from Zhuoming

    3. Updates from Lucas

- **Notes**

    1. Introduced our projects to Alinson:

        a. Zhuoming will build a radar system for reconstructing 3d images from an environment, do some experiments and data collection.

        b. Lucas will reproduce the MilliMap system, in regarding deep learning. Zhuoming and Lucas can assist each other. And Zhuoming can learn it as an alternative design for his senior design project.

        c. Yue will also work on deep learning modeling and coding.

    2. Updates from Zhuoming:

        a. Kinect is bigger and heavier than ZED mini, not suitable for our quadcopter. It can be alternative hardware design, but requires a bigger drone.

        b. Use an acrylic board to connect radar boards and slider.

        c. Will collect some data this week.

        d. Updated the budget, including TI's 6843ISK radar, ZED mini, and a 3d printed connector.

    3. Updates from Lucas

        a. Check for the 3D slider at workplace.

        b. Going through tutorials of MilliMap.

        c. Had training issues with GPU, will try training with CPU temporarily.

    4. The meeting is shorter than usual because Prof. Zhang has another meeting at 16:00. We will discuss the projects at another time.

- **Follow-ups**

    1. Major comparison b/w Kinect and ZED mini is done.