ENGIN492, Senior Design Weekly Meeting #1

Meeting Minutes

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Agenda

1. Experiment/simulation scene

2. Drone license

3. Neural Network

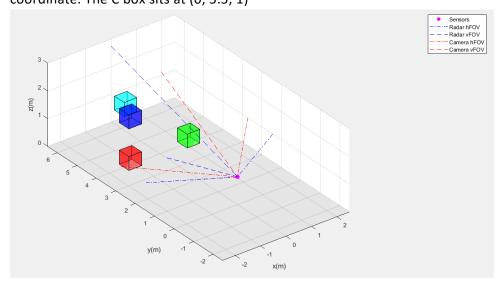
Notes

1. The scene is shown below:

a. The sensor is assumed to be placed at 1m high, at (0, 0, 1)m
4 objects: one (cyan) sits right in front of the sensors at ~5.5m away, the other three sit at 4m away (in range), the red one and green one are symmetric about y=0, red and blue are symmetric about z=1.

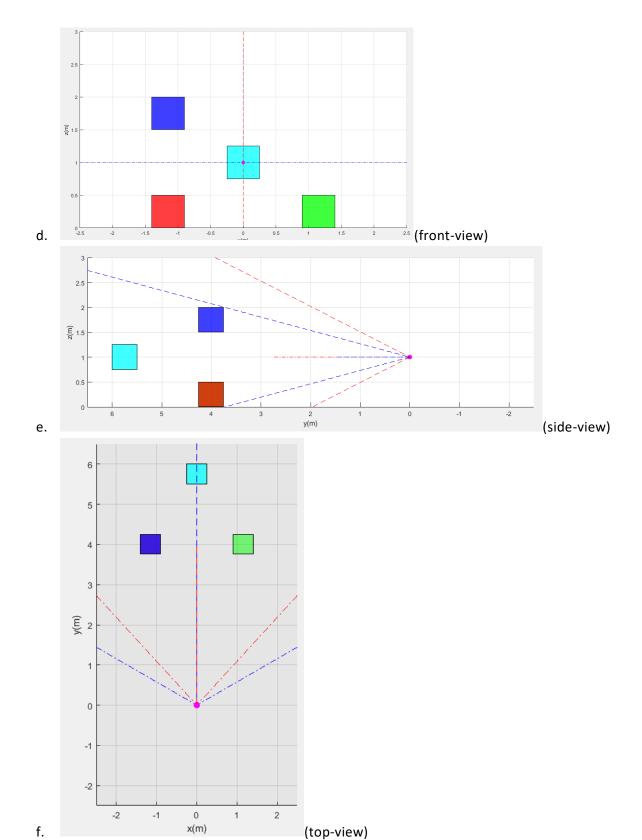
	1	2	3
1	-1.1502	3.7569	0.2500
2	1.1502	3.7569	0.2500
3	-1.1502	3.7569	0.7500

from top to bottom: (x, y, z) of center of front surface of R/G/B boxes in meters in world coordinate. The C box sits at (0, 5.5, 1)



c.





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2. Drone license

- a. https://www.faa.gov/uas/
- b. Research on drone register, required information, limitation, pilot license, for educational users.
- c. Check details in part 107.
- 3. Test the NN using a pair of depth image (perspective projection) and the associated camera intensity heatmap (cartesian coordinate) as a sample point.
- 4. Team web page
 - a. http://www.students.umb.edu/e103t24/index.html
- 5. PCB

• Follow-up