

ENGIN492, Senior Design Weekly Meeting #15

Meeting Minutes

05/05/2021 15:30 – 16:15

CM/TM: Dr. Honggang Zhang

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

- **Agenda**

1. Final presentation review

- **Notes**

1. FPP review
 - i. keep adding real data
2. put cleaning robot in the room when collecting data, holding something to create random noise. (<https://www.bestbuy.com/site/ecovacs-robotics-deebot-n79se-wi-fi-connected-robot-vacuum-espresso/6294400.p?skuId=6294400>)
3. drone redesign
 - i. Frame
XL8 V4, 8-inch frame (\$56.99)
(size will be about 350mm x 350mm, including propellers)
https://shop.iflight-rc.com/index.php?route=product/product&path=32&product_id=926&sort=p.price&order=ASC
if budget allows, we may consider the 10-inch frame, DC10 (\$96.99):
(size will be about 500mm x 500mm, including propellers)
https://shop.iflight-rc.com/index.php?route=product/product&path=32&product_id=950
 - ii. Motors
F40PRO IV, ($\$26.90 \times 4 = \107.60)
KV: 1950
<https://store-en.tmotor.com/goods.php?id=1011>
 - iii. Propellers
8-inch diameter (\$9.99~\$12.49/pair, 2 pairs = \$20~\$25, 4 pairs = \$40~\$50)
https://www.amazon.com/dp/B07PXJQ7DL/ref=emc_b_5_t?th=1
 - iv. battery
 - v. ESCs
 - vi. BEC

- **List of Actions**

1. make the list of new drone components (by 5/6)

- **Preliminary Agenda for Next Meeting**

1. Final review