

Worst case scenario :



Embody

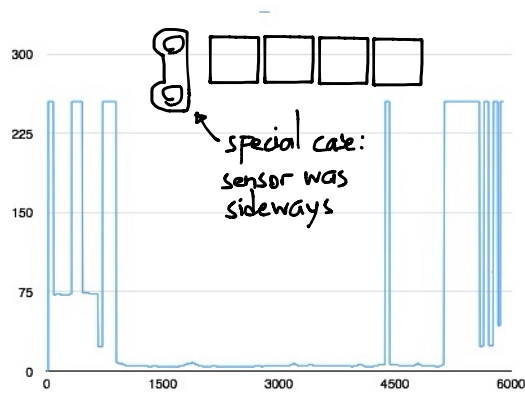
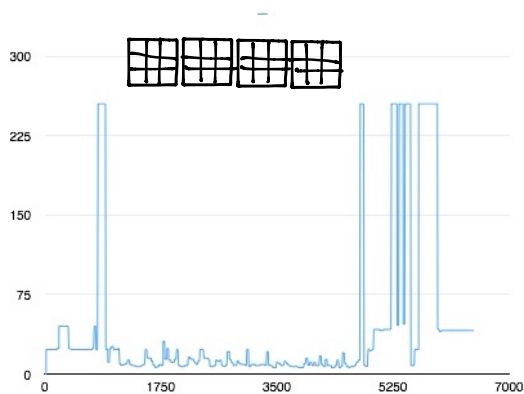
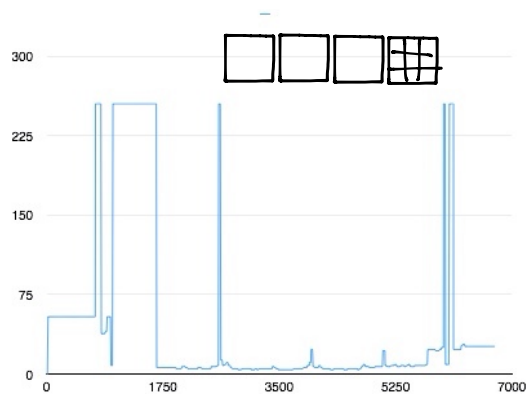
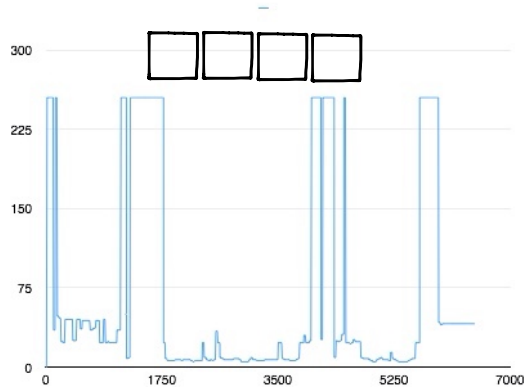
However, this never seems to occur on the real field:



Tests run

Pass ultrasonic / color sensor by 4 blocks above
Alternate block face (grated vs. smooth)
Record data

5 Charts of data run:



Conclusions from testing

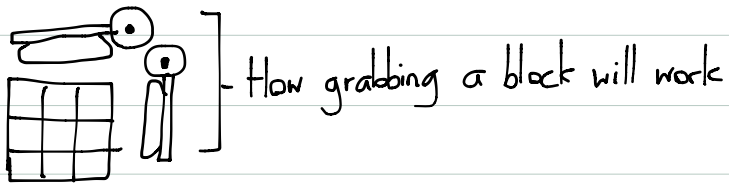
- EDPD is confusing and needs some thought
- It's nearly impossible to distinguish edges when blocks are next to each other
- Some key assumptions need to be made

New key assumptions

- Driver knows where a block is and will driver up in line two one
- Blocks are scattered randomly (i.e., no worst case scenarios)

Results of assumptions

- Only need to check if a block is a certain distance away
- Only need to search a block vertically to find top



Arm build progress:

