8/12/2025

I noticed that the z values for detected apriltags were abnormally huge

```
2022-03-30 16:37:10.193928,1648658230193928,apriltag_15_frame,,0.4806568812349654,-2.4562503981092374,7.256314667
       2022-03-30 16:37:10.527261,1648658230527261,apriltag_15_frame,,0.4866941683562987,-2.399582875357507,7.2845547044487
      2022-03-30 16:37:10.860595,1648658230860595,apriltag_15_frame,,0.4847640834721705,-2.3452052529946323,7.301811705911
      2022-03-30 16:37:11.193928,1648658231193928,apriltag_15_frame,,0.4866766574750791,-2.303241358022307,7.3532737792523
      2022-03-30 16:37:11.527261,1648658231527261,apriltag_15_frame,,0.4952220304782949,-2.25848813357156,7.39673163242234
      2022-03-30 16:37:11.860594,1648658231860594,apriltag_15_frame,,0.5205227748150415,-2.2152432518697736,7.456845312697
      2022-03-30 16:37:12.193928,1648658232193928,apriltag_15_frame,,0.5512731210863998,-2.1453297308695274,7.427704938186
2442 2022-03-30 16:37:12.527261,1648658232527261,apriltag_15_frame,,0.5876977061645497,-2.096295807280124,7.4583025452211
2443 2022-03-30 16:37:12.860594,1648658232860594,apriltag_15_frame,,0.6164334585033798,-2.0495490820785416,7.470338920583
      2022-03-30 16:37:13.193927,1648658233193927,apriltag_15_frame,,0.6324906383001465,-1.996803598314004,7.4374690417813
      2022-03-30 16:37:13.527261,1648658233527261,apriltag_15_frame,,0.6392686604814659,-1.9346890794821807,7.345630683113
      2022-03-30 16:37:13.860594,1648658233860594,apriltag_15_frame,,0.6460659171645377,-1.8555187325972464,7.186893271082
      2022-03-30 16:37:14.193927,1648658234193927,apriltag_15_frame,,0.6620759617903134,-1.782762337620886,7.0633223155321
2448 2022-03-30 16:37:14.527261,1648658234527261,apriltag_15_frame,,0.6736547962676117,-1.681966379002115,6.8372074040710
      2022-03-30 16:37:14.860594,1648658234860594,apriltag_15_frame, 0.6840987003934303,-1.590047974261001,6.6393668945215
      2022-03-30 16:37:15.193927,1648658235193927,apriltag_15_frame,,0.6807561236048735,-1.4854347632274048,6.357126351944
      2022-03-30 16:37:15.527260,1648658235527260,apriltag_15_frame,,0.6672872933731677,-1.389935086657489,6.0661420606183
     2022-03-30 16:37:15.860594,1648658235860594,apriltag_15_frame,,0.6476946344580142,-1.2974007734563096,5.751143531894
     2022-03-30 16:37:16.193927,1648658236193927,apriltag_15_frame,,0.6304528298882593,-1.20529463387287,5.44390747445558
     2022-03-30 16:37:16.527260,1648658236527260,apriltag_15_frame, 0.6213703140566766,-1.1035985184421968,5.140031731906
      2022-03-30 16:37:16.860593,1648658236860593,apriltag_15_frame,,0.6143242347491915,-0.9977453532924034,4.838565430953
      2022-03-30 16:37:17.193927,1648658237193927,apriltag_15_frame,,0.6015216174861445,-0.8934124515980745,4.515179369466
      2022-03-30 16:37:17.527260,1648658237527260,apriltag_15_frame,,0.5852303224849069,-0.8092728611733793,4.210256103323
      2022-03-30 16:37:17.860593,1648658237860593,apriltag_15_frame,,0.5647520784050553,-0.7400200022835374,3.906519179600
     2022-03-30 16:37:18.193927,1648658238193927,apriltag_15_frame,,0.5237367086266216,-0.6742943701794916,3.611308823679
     2022-03-30 16:37:18.527260,1648658238527260,apriltag_15_frame,,0.4128795807362916,-0.6058112888361467,3.336829998302
      2022-03-30 16:37:18.860593,1648658238860593,apriltag_15_frame,,0.2587618293953352,-0.4893991828297668,3.083131635934
      2022-03-30 16:37:19.193926,1648658239193926,apriltag_15_frame,,0.0896639414456526,-0.3580781502117824,2.843998541050
      2022-03-30 16:37:19.527260,1648658239527260,apriltag_15_frame,,-0.0538345803737248,-0.245605625044465,2.608008132610
      2022-03-30 16:37:19.860593.1648658239860593.apriltag 15 frame..-0.1638030904718115.-0.1332083235151642.2.37894938573
```

When the robot goes into the docking cage it's saying that tag 15 is 7 meters away!

So I had to add a configuration to the apriltags.yml to account for the 0.24 and 0.065 marker size.