April Tag Localization

Angle To Target Objective	Objective x (cm)	Objective y (cm)	Objective z (cm)		Angle To Target Measured	Measured x (cm)	Measured y (cm)	Measured z (cm)	Error in x (cm)	Error in y (cm)	Error in z (cm)
	Sideways Offset	Height from floor	Distance from camera								
-21.801	-100	30	250		-22.0158388	-93	23	230	0.07	0.2333333333	0.08
-16.699	-75	30	250		-18.14918671	-79	33	241	0.05333333333	0.1	0.036
-11.310	-50	30	250		-11.04630345	-49	31	251	0.02	0.03333333333	0.004
-5.711	-25	30	250		-5.492324557	-25	35	260	0	0.1666666667	0.04
0.000	0	30	250		0.9203349668	4	29	249	0	0.03333333333	0.004
5.711	25	30	250		6.044092162	27	30	255	0.08	0	0.02
11.310	50	30	250		11.22068678	49	26	247	0.02	0.1333333333	0.012
16.699	75	30	250		15.9173647	77	34	270	0.02666666667	0.1333333333	0.08
21.801	100	30	250		19.51079944	90	26	254	0.1	0.1333333333	0.016
-7.125	-50	30	400		-7.730455332	-60	20	442	0.2	0.3333333333	0.105
7.125	50	30	400		7.789285478	58	23	424	0.16	0.2333333333	0.06
					STDEV in Error	0.06543	0.09980	0.03488	0.0654294284	0.09979777532	0.0348808361
					MEAN of Error	0.06636	0.13939	0.04155	0.06636363636	0.1393939394	0.04154545455

Stereo Vision

Area of Object (cm^2)	Actual Distance (cm)	Measured Distance (cm)		Angle To Target Measured	Measured x (cm)	Measured y (cm)	Measured z (cm)
100	30	34		-22.0158388	-93	23	230
100	60	73		-18.14918671	-79	33	241
100	95	102		-11.04630345	-49	31	251
200	30	32		-5.492324557	-25	35	260
200	60	66		0.9203349668	4	29	249
200	95	99		6.044092162	27	30	255
400	100	101		11.22068678	49	26	247
				15.9173647	77	34	270
				19.51079944	90	26	254
				-7.730455332	-60	20	442
				7.789285478	58	23	424