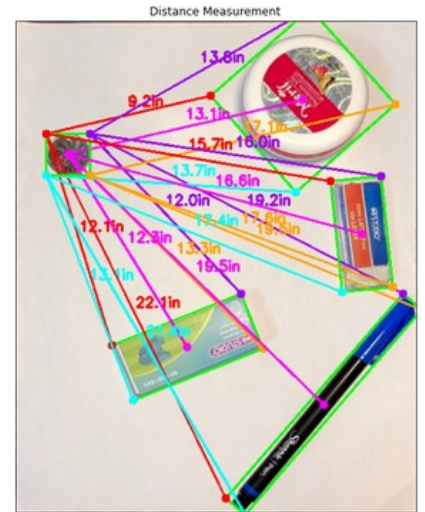
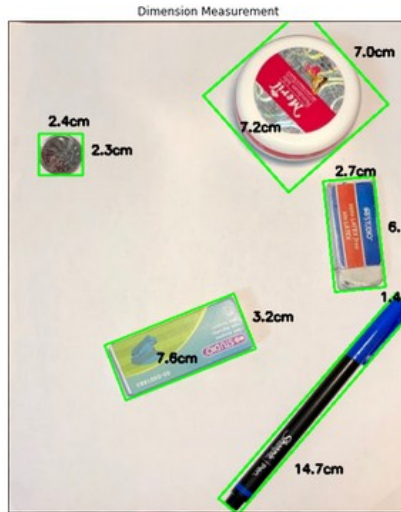


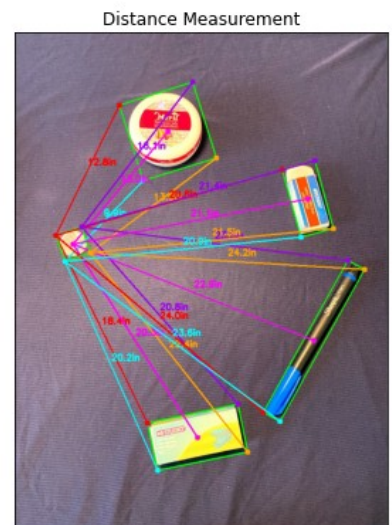
APPENDIX

SUPPLEMENTAL IMAGES



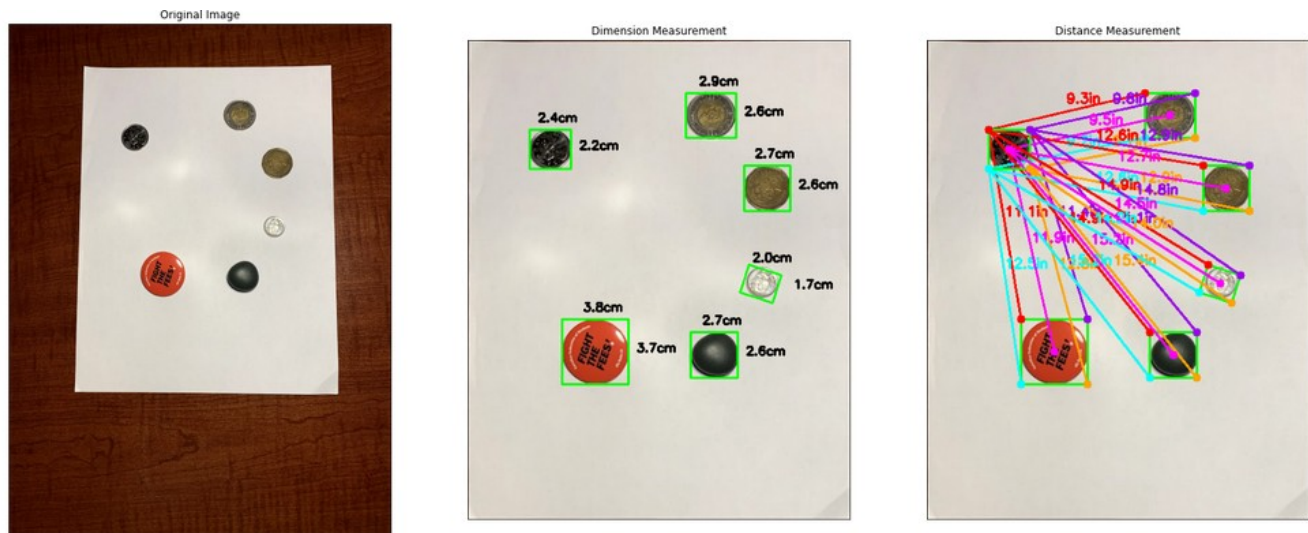
Object Measurement in Img1 with Perspective Transformation

Object Name	AH (cm)	PH (cm)	AW (cm)	PW (cm)	Avg. Accuracy (%)	Percent Error (%)
Quarter Coin	2.40	2.30	2.40	2.40	97.92	-2.08
Staple Box	2.90	3.20	6.90	7.60	90.71	10.24
Pen	1.10	1.40	14.60	14.70	88.95	13.98
Lip Gel Jar	6.50	7	6.50	7.20	91.57	9.23
Rubber Eraser	6	6.10	2.30	2.70	91.77	9.53



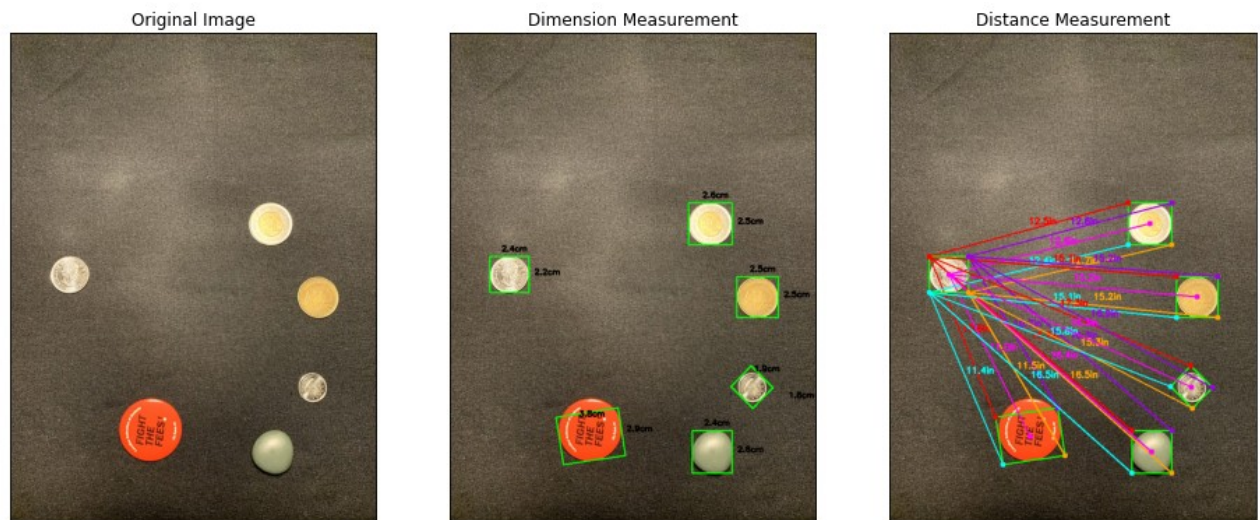
Object Measurement in Img11 without Perspective Transformation

Object Name	AH (cm)	PH (cm)	AW (cm)	PW (cm)	Avg. Accuracy (%)	Percent Error (%)
Quarter Coin	2.40	2.40	2.40	2.40	100	0
Staple Box	2.80	4.30	6.90	8.10	75.15	35.48
Pen	1.10	1.70	14.60	15.30	80.07	29.67
Lip Gel Jar	6.50	7	6.50	6.80	94.22	6.15
Rubber Eraser	2.30	3	6	6.20	86.72	16.88



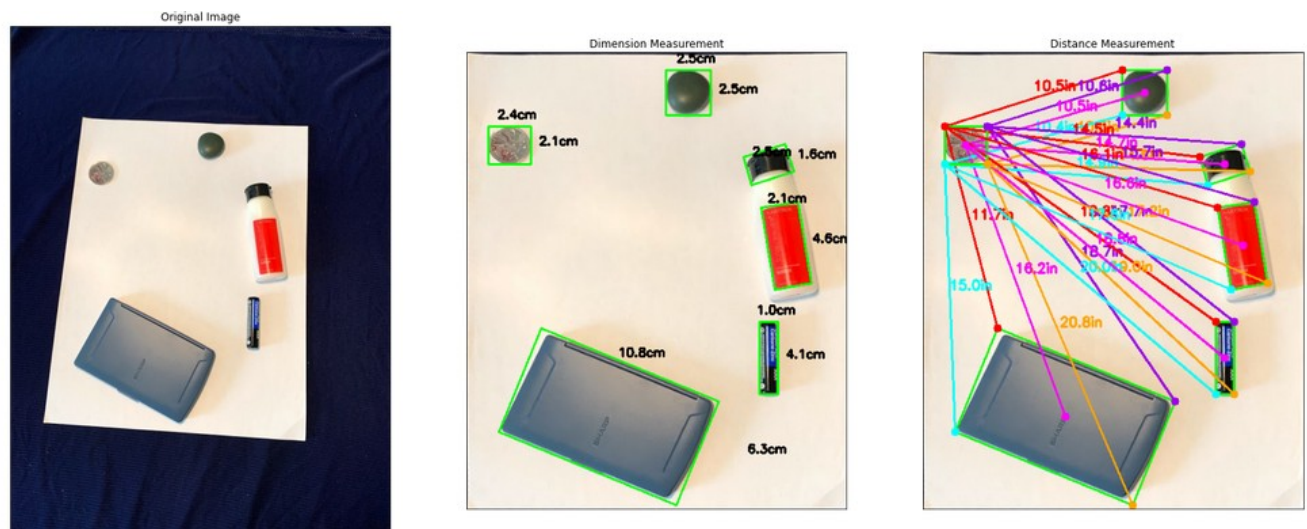
Object Measurement in Img2 with Perspective Transformation

Object Name	AH (cm)	PH (cm)	AW (cm)	PW (cm)	Avg. Accuracy (%)	Percent Error (%)
Quarter Coin	2.40	2.20	2.40	2.40	95.83	-4.17
Toonie	2.80	2.60	2.80	2.90	94.70	-1.79
Dime	1.80	1.70	1.80	2	92.22	2.78
Loonie	2.70	2.60	2.70	2.70	98.15	-1.85
Badge	3.70	3.70	3.70	3.80	98.68	1.35
Stone	2.50	2.50	2.60	2.70	98.15	1.92



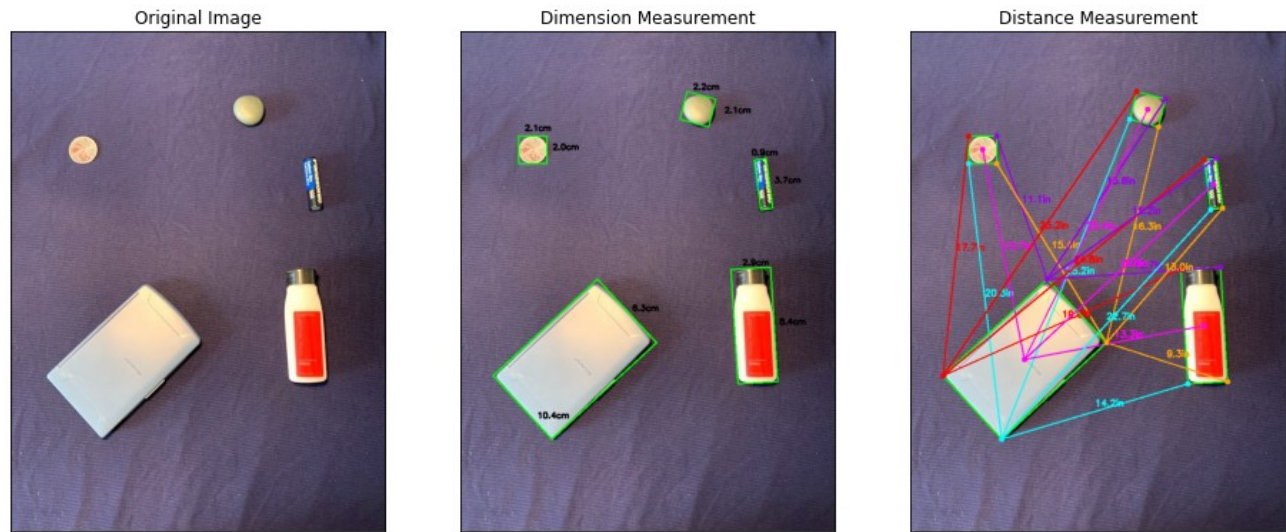
Object Measurement in Img22 without Perspective Transformation

Object Name	AH (cm)	PH (cm)	AW (cm)	PW (cm)	Avg. Accuracy (%)	Percent Error (%)
Quarter Coin	2.40	2.10	2.40	2.40	93.75	-6.25
Lotion Tube	8.40	6.20	2.30	2.50	82.90	-8.75
Calculator	6.30	6.30	10.50	10.80	98.61	1.43
AAA Battery	4.10	4.10	1.50	1	83.33	-16.67
Stone	2.50	2.50	2.60	2.50	98.08	-1.92



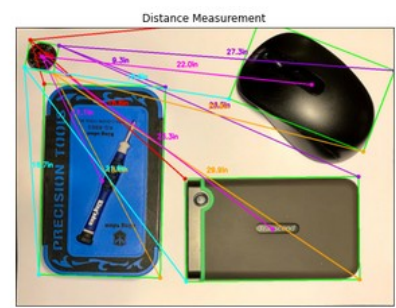
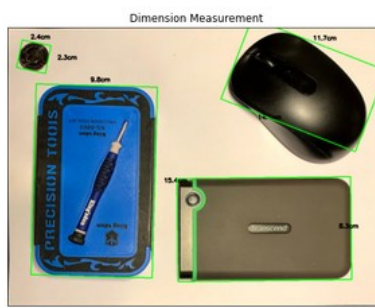
Object Measurement in Img3 with Perspective Transformation

Object Name	AH (cm)	PH (cm)	AW (cm)	PW (cm)	Avg. Accuracy (%)	Percent Error (%)
Quarter Coin	2.40	2.10	2.40	2.40	93.75	-6.25
Lotion Tube	8.40	6.20	2.30	2.50	82.90	-8.75
Calculator	6.30	6.30	10.50	10.80	98.61	1.43
AAA Battery	4.10	4.10	1.50	1	83.33	-16.67
Stone	2.50	2.50	2.60	2.50	98.08	-1.92



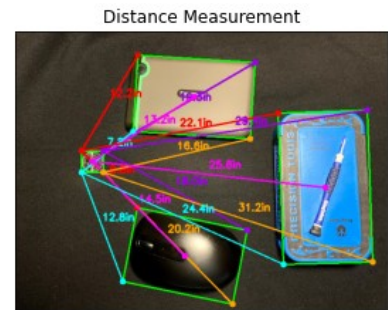
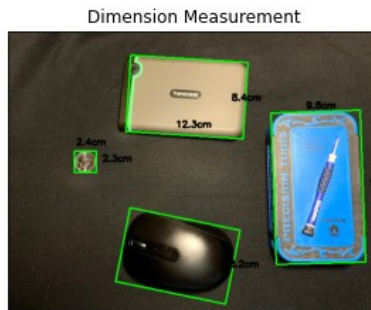
Object Measurement in Img32 without Perspective Transformation

Object Name	AH (cm)	PH (cm)	AW (cm)	PW (cm)	Avg. Accuracy (%)	Percent Error (%)
Quarter Coin	2.40	2	2.40	2.10	85.42	-14.58
Lotion Tube	8.40	8.40	2.30	2.90	89.66	13.04
Calculator	6.30	6.30	10.50	10.40	99.52	-0.48
AAA Battery	4.10	3.70	1.50	0.90	75.12	-24.88
Stone	2.50	2.10	2.60	2.20	84.31	-15.69



Object Measurement in Img4 with Perspective Transformation

Object Name	AH (cm)	PH (cm)	AW (cm)	PW (cm)	Avg. Accuracy (%)	Percent Error (%)
Quarter Coin	2.40	2.30	2.40	2.40	97.92	-2.08
Tool Box	14	15.40	8	9.80	86.27	16.25
Hard Disk	8.10	8.30	13	14.10	94.89	5.47
Mice	10.50	11.70	6.10	7	88.44	13.09



Object Measurement in Img42 without Perspective Transformation

Object Name	AH (cm)	PH (cm)	AW (cm)	PW (cm)	Avg. Accuracy (%)	Percent Error (%)
Quarter Coin	2.40	2.30	2.40	2.40	97.92	-2.08
Tool Box	14	16.60	8	9.80	82.99	20.54
Hard Disk	8.10	8.40	13	12.30	95.52	-0.84
Mice	10.50	12.30	6.10	8.20	79.88	25.78