
Chapter 1. BarbellSquat

1.1. Average Error by Sensor

	Sensor	Axis	GroupCount	mean_zero_cross	std_zero_cross
grav_data_Z	'grav_data'	'Z'	21.000	2.821	5.906
grav_data_X	'grav_data'	'X'	21.000	4.143	6.655
orient_data_qw	'orient_data'	'qw'	21.000	4.631	7.454
orient_data_roll	'orient_data'	'roll'	21.000	4.726	7.369
grav_data_Y	'grav_data'	'Y'	21.000	4.940	7.782
orient_data_pitch	'orient_data'	'pitch'	21.000	4.964	7.698
orient_data_yaw	'orient_data'	'yaw'	21.000	5.548	7.510
orient_data_qy	'orient_data'	'qy'	21.000	6.214	7.723
orient_data_qx	'orient_data'	'qx'	21.000	6.548	7.180
orient_data_qz	'orient_data'	'qz'	21.000	6.857	7.372

Chapter 2. BarbellSquats

2.1. Average Error by Sensor

	Sensor	Axis	GroupCount	mean_zero_cross	std_zero_cross
orient_data_qw	'orient_data'	'qw'	6.000	0.250	5.258
orient_data_pitch	'orient_data'	'pitch'	6.000	0.250	5.557
orient_data_roll	'orient_data'	'roll'	6.000	0.333	3.659
grav_data_Z	'grav_data'	'Z'	6.000	0.375	4.189
grav_data_Y	'grav_data'	'Y'	6.000	0.417	5.757
grav_data_X	'grav_data'	'X'	6.000	0.458	1.847
orient_data_qz	'orient_data'	'qz'	6.000	0.667	4.055
orient_data_yaw	'orient_data'	'yaw'	6.000	0.833	3.441
orient_data_qy	'orient_data'	'qy'	6.000	1.167	4.446
orient_data_qx	'orient_data'	'qx'	6.000	1.708	4.226

Chapter 3. BenchPress

3.1. Average Error by Sensor

	Sensor	Axis	GroupCount	mean_zero_cross	std_zero_cross
orient_data_qz	'orient_data'	'qz'	23.000	0.793	8.882
grav_data_X	'grav_data'	'X'	23.000	1.337	9.989
grav_data_Z	'grav_data'	'Z'	23.000	2.272	6.783
orient_data_qw	'orient_data'	'qw'	23.000	2.293	7.874
orient_data_qy	'orient_data'	'qy'	23.000	2.565	8.163
orient_data_pitch	'orient_data'	'pitch'	23.000	3.554	4.987
orient_data_roll	'orient_data'	'roll'	23.000	4.174	10.703
orient_data_qx	'orient_data'	'qx'	23.000	5.174	7.485
grav_data_Y	'grav_data'	'Y'	23.000	5.717	5.292
orient_data_yaw	'orient_data'	'yaw'	23.000	7.174	7.378

Chapter 4. Deadlift

4.1. Average Error by Sensor

	Sensor	Axis	GroupCount	mean_zero_cross	std_zero_cross
grav_data_X	'grav_data'	'X'	6.000	0.375	1.737
orient_data_qx	'orient_data'	'qx'	6.000	0.375	3.040
orient_data_roll	'orient_data'	'roll'	6.000	0.792	2.342
orient_data_qw	'orient_data'	'qw'	6.000	1.292	6.339
orient_data_pitch	'orient_data'	'pitch'	6.000	1.292	10.072
orient_data_qz	'orient_data'	'qz'	6.000	1.625	7.607
grav_data_Z	'grav_data'	'Z'	6.000	1.667	9.854
grav_data_Y	'grav_data'	'Y'	6.000	2.167	10.329
orient_data_qy	'orient_data'	'qy'	6.000	2.333	6.831
orient_data_yaw	'orient_data'	'yaw'	6.000	9.917	9.651

Chapter 5. Jogging

5.1. Average Error by Sensor

	Sensor	Axis	GroupCount	mean_findpeaks_above_zero	std_findpeaks_above_zero
grav_data_X	'grav_data'	'X'	20.000	8.700	60.639
orient_data_yaw	'orient_data'	'yaw'	20.000	16.200	105.303
orient_data_qy	'orient_data'	'qy'	20.000	20.400	99.146
orient_data_roll	'orient_data'	'roll'	20.000	24.400	122.062
orient_data_qx	'orient_data'	'qx'	20.000	24.750	109.198
grav_data_Y	'grav_data'	'Y'	20.000	25.850	102.773
orient_data_pitch	'orient_data'	'pitch'	20.000	34.950	85.912
grav_data_Z	'grav_data'	'Z'	20.000	35.700	82.687
orient_data_qz	'orient_data'	'qz'	20.000	38.500	81.327
orient_data_qw	'orient_data'	'qw'	20.000	58.450	87.763

Chapter 6. Pullups

6.1. Average Error by Sensor

	Sensor	Axis	GroupCount	mean_zero_cross	std_zero_cross
orient_data_pitch	'orient_data'	'pitch'	23.000	0.435	1.880
orient_data_qz	'orient_data'	'qz'	23.000	0.717	5.184
grav_data_Y	'grav_data'	'Y'	23.000	0.804	1.933
orient_data_roll	'orient_data'	'roll'	23.000	0.978	7.044
orient_data_qx	'orient_data'	'qx'	23.000	1.207	6.305
grav_data_X	'grav_data'	'X'	23.000	1.880	6.471
orient_data_qy	'orient_data'	'qy'	23.000	2.326	5.410
grav_data_Z	'grav_data'	'Z'	23.000	3.880	4.629
orient_data_yaw	'orient_data'	'yaw'	23.000	4.293	5.851
orient_data_qw	'orient_data'	'qw'	23.000	5.598	3.523

Chapter 7. Situps

7.1. Average Error by Sensor

	Sensor	Axis	GroupCount	mean_zero_cross	std_zero_cross
grav_data_X	'grav_data'	'X'	7.000	0.036	5.927
orient_data_pitch	'orient_data'	'pitch'	7.000	0.071	3.769
grav_data_Y	'grav_data'	'Y'	7.000	0.071	3.837
orient_data_qy	'orient_data'	'qy'	7.000	0.500	9.510
orient_data_qx	'orient_data'	'qx'	7.000	0.607	4.284
grav_data_Z	'grav_data'	'Z'	7.000	0.964	6.158
orient_data_qz	'orient_data'	'qz'	7.000	1.571	5.105
orient_data_qw	'orient_data'	'qw'	7.000	2.393	7.931
orient_data_roll	'orient_data'	'roll'	7.000	3.321	7.320
orient_data_yaw	'orient_data'	'yaw'	7.000	4.821	8.544

Chapter 8. UofC

8.1. Average Error by Sensor

	Sensor	Axis	GroupCount	mean_zero_cross	std_zero_cross
orient_data_yaw	'orient_data'	'yaw'	2.000	6.875	9.016
orient_data_roll	'orient_data'	'roll'	2.000	11.125	12.905
orient_data_qx	'orient_data'	'qx'	2.000	11.500	0.000
orient_data_qy	'orient_data'	'qy'	2.000	16.250	6.718
grav_data_Y	'grav_data'	'Y'	2.000	16.750	6.010
grav_data_X	'grav_data'	'X'	2.000	16.875	23.158
grav_data_Z	'grav_data'	'Z'	2.000	18.875	25.279
orient_data_qw	'orient_data'	'qw'	2.000	19.000	9.192
orient_data_qz	'orient_data'	'qz'	2.000	23.500	16.971
orient_data_pitch	'orient_data'	'pitch'	2.000	26.125	1.237

Chapter 9. Walking

9.1. Average Error by Sensor

	Sensor	Axis	GroupCount	mean_findpeaks_above_zero	std_findpeaks_above_zero
grav_data_Y	'grav_data'	'Y'	9.000	17.778	19.620
orient_data_qy	'orient_data'	'qy'	9.000	52.778	32.840
grav_data_Z	'grav_data'	'Z'	9.000	56.333	61.749
orient_data_qx	'orient_data'	'qx'	9.000	67.333	65.119
orient_data_roll	'orient_data'	'roll'	9.000	85.333	59.850
grav_data_X	'grav_data'	'X'	9.000	89.778	57.861
orient_data_pitch	'orient_data'	'pitch'	9.000	98.778	61.814
orient_data_qz	'orient_data'	'qz'	9.000	104.111	61.527
orient_data_qw	'orient_data'	'qw'	9.000	109.444	62.891
orient_data_yaw	'orient_data'	'yaw'	9.000	110.556	66.470

Chapter 10. WalkingOnTreadmill

10.1. Average Error by Sensor

	Sensor	Axis	GroupCount	mean_findpeaks_above_zero	std_findpeaks_above_zero
grav_data_Y	'grav_data'	'Y'	4.000	7.000	10.033
orient_data_qw	'orient_data'	'qw'	4.000	15.000	40.274
orient_data_qx	'orient_data'	'qx'	4.000	16.250	11.471
orient_data_qy	'orient_data'	'qy'	4.000	22.000	15.811
grav_data_Z	'grav_data'	'Z'	4.000	32.500	21.424
orient_data_roll	'orient_data'	'roll'	4.000	37.250	12.148
orient_data_qz	'orient_data'	'qz'	4.000	42.250	8.500
grav_data_X	'grav_data'	'X'	4.000	42.250	10.782
orient_data_yaw	'orient_data'	'yaw'	4.000	44.500	8.699
orient_data_pitch	'orient_data'	'pitch'	4.000	45.000	15.166