

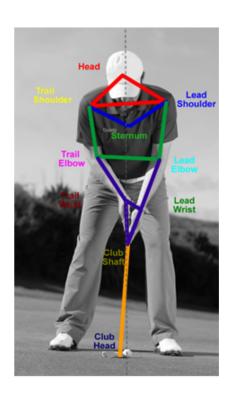
	QUINTIC PUTTING ANALYSIS									
Name	Paul Hurrion									
Email	info@quintic.com Date 02.12.19									
Mass	80 kg	Handicap	2			Height	176 cm			

Summary

Example Putting Report - Average 6 Putts

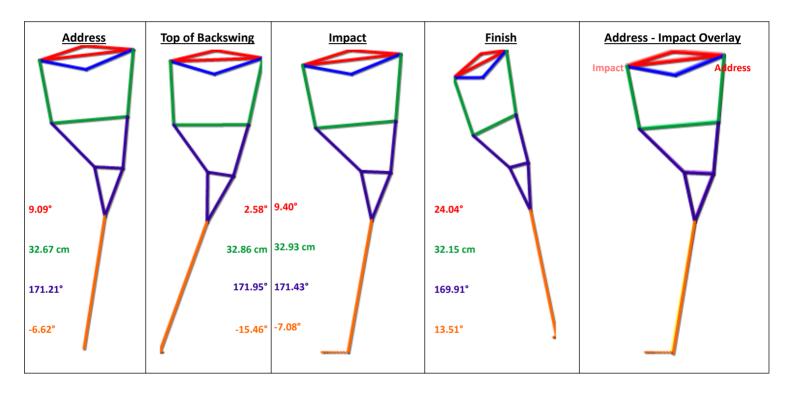
KEY AND DIAGRAMS



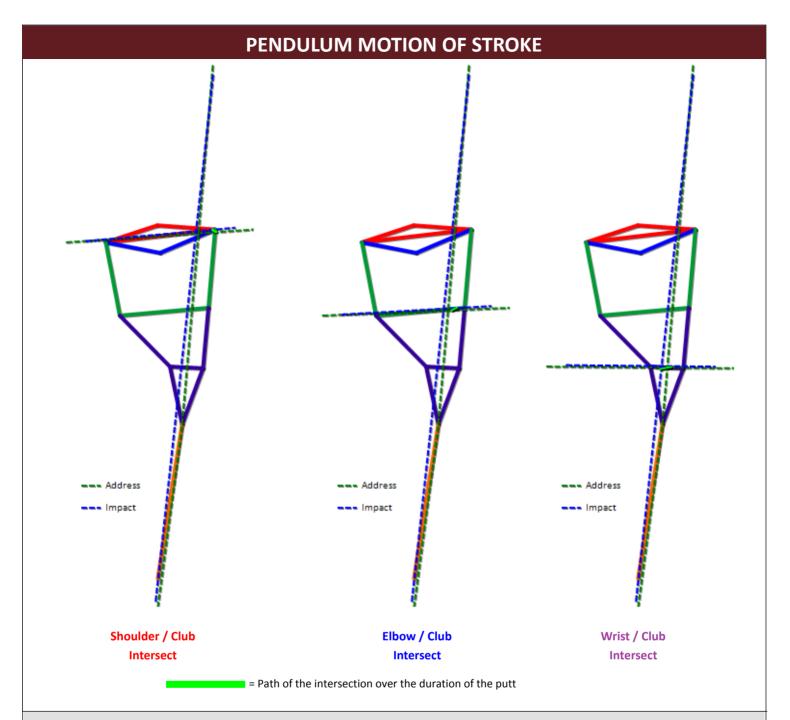


N.B. The above Markers are for Right Handed Golfers. For Left Handers, Trail and Lead will be reversed for the Shoulder, Elbow and Wrist

POSITIONS											
	Address	SD	Top of Backswing	SD	Impact	SD	Finish	SD			
Shoulder Tilt (degrees)	9.09°	1.45°	2.58°	1.31°	9.40°	1.45°	24.04°	1.45°			
Shaft Angle (degrees)	-6.62°	0.44°	-15.46°	0.47°	-7.08°	0.38°	13.51°	1.62°			
Lead Wrist Angle (degrees)	171.21°	0.38°	171.95°	0.32°	171.43°	0.28°	169.91°	0.29°			
Elbow Distance (cm)	32.67 cm	0.91 cm	32.86 cm	0.75 cm	32.93 cm	0.82 cm	32.15 cm	0.91 cm			
Ball Position Relative to Sternum (cm)	1.48 cm	(For Reference, see Page 1)									



HEA	AD KINI	EMATI	CS		
	Sway	SD	Lift	SD	Positive Lift
Head Displacement in the Backswing (cm)	0.76	0.21	-0.15	0.17	Negative Sway Negative Lift
Head Displacement in the Downswing (cm)	-0.70	0.17	1.03	0.16	
Head Displacement in the Throughswing (cm)	0.79	0.15	2.32	0.15	Quiance
Head Displacement from Address to Impact (cm)	0.06	0.21	0.91	0.25	Target

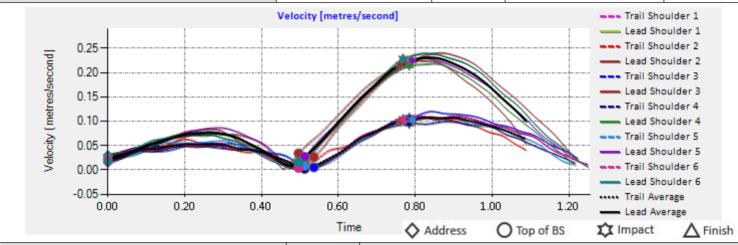


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mersect	AUSIE	10651667	1.

0 (0 ,								
	Address	SD	Top of Backswing	SD	Impact	SD	Finish	SD
Shoulder / Club Intersect	74.29°	1.55°	71.95°	1.64°	73.51°	1.55°	79.42°	1.98°
Elbow / Club Intersect	76.60°	1.14°	74.41°	1.36°	75.70°	1.26°	80.70°	1.69°
Wrist / Club Intersect	87.41°	1.08°	85.90°	1.23°	86.42°	1.05°	90.86°	1.38°

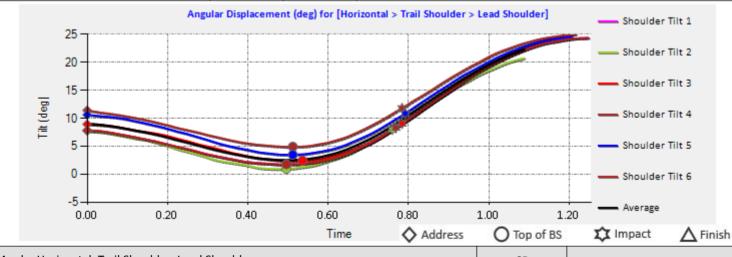
Difference between	Shoulder Intersect Angle	SD	Elbow Intersect Angle	SD	Wrist Intersect Angle	SD
Address and Top of BS (degrees)	-2.33°	0.17°	-2.18°	0.32°	-1.51°	0.47°
Top of BS to Impact (degrees)	1.56°	0.25°	1.28°	0.26°	0.52°	0.23°
Impact and Finish (degrees)	5.90°	0.55°	5.01°	0.48°	4.44°	0.35°
Address and Impact (degrees)	-0.77°	0.20°	-0.90°	0.27°	-0.99°	0.31°

SHOULDER AND UPPER TRUNK KINEMATICS										
When Club Head at Maximum Velocity:	Lead Shoulder Velocity	SD	Trail Shoulder Velocity	SD						
In the Backswing	0.08 m/s	0.01 m/s	0.05 m/s	0.00 m/s						
Percentage Attributable to each Shoulder	60 %	1 %	40 %	1 %						
In the Downswing	0.22 m/s	0.00 m/s	0.10 m/s	0.00 m/s						
Percentage Attributable to each Shoulder	68 %	1 %	32 %	1 %						
In the Throughswing	0.23 m/s	0.01 m/s	0.11 m/s	0.00 m/s						
Percentage Attributable to each Shoulder	68 %	1 %	32 %	1 %						



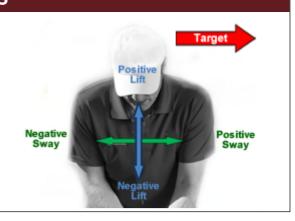
Shoulder Tilt (degrees):	SD	
At Address	9.09°	1.45°
At Top of Backswing	2.58°	1.31°
At Impact	9.40°	1.45°
At Impact Relative to Address	0.31°	0.14°
Degree of Tilt in Backswing	-6.51°	0.38°
Degree of Tilt in Downswing	6.82°	0.31°



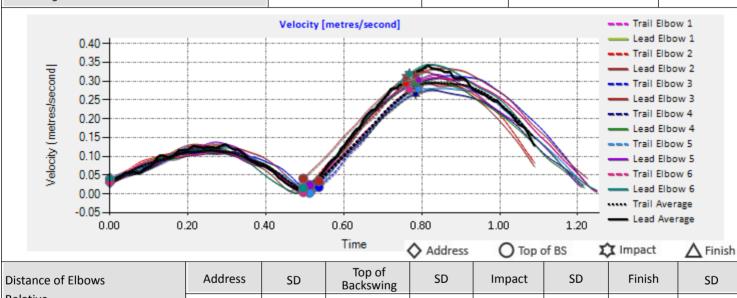


Angle: Horizontal, Trail Shoulder, Lead Shoulder		SD	
Maximum Angular Velocity of Backswing (deg/s)	22.14	1.83	
Maximum Angular Velocity of Throughswing (deg/s)	51.34	1.90	
Ratio of Angular Velocity for BS compared to TS	1:2.32 (1:2=D	ouble the Speed	on the TS)

		TRUN	NK KINE	MATIC
	Sway	SD	Lift	SD
in the Backswing (cm)	-0.77	0.05	-0.21	0.07
in the Downswing (cm)	0.47	0.04	0.95	0.13
in the Throughswing (cm)	1.33	0.16	1.98	0.21
from Address to Impact (cm)	-0.30	0.07	0.75	0.07



ELBOW KINEMATICS										
When Club Head at Maximum Velocity:	Lead Elbow Velocity	SD	Trail Elbow Velocity	SD						
In the Backswing	0.12 m/s	0.01 m/s	0.12 m/s	0.01 m/s						
Percentage Attributable to each Elbow	51 %	1%	49 %	1 %						
In the Downswing	0.30 m/s	0.01 m/s	0.27 m/s	0.01 m/s						
Percentage Attributable to each Elbow	53 %	1 %	47 %	1 %						
In the Throughswing	0.31 m/s	0.01 m/s	0.29 m/s	0.02 m/s						
Percentage Attributable to each Elbow	52 %	0 %	48 %	0 %						



Distance of Elbows Relative		Address	SD	Top of Backswing	SD	Impact	SD	Finish	SD
		32.67	0.91	32.86	0.75	32.93	0.82	32.15	0.91
	34.0						_	Elbow Distan	ce 1
	33.5		_	*			_	Elbow Distan	ce 2
E	33.0							■ Elbow Distan	ce 3
) eo	32.5						—		
Distance (cm	32.0							Elbow Distan	ce 4
	31.5							Elbow Distan	ce 5
	31.0			*			_	Elbow Distan	ce 6

0.80

♦ Address

0.60

Time

1.00

1.20

O Top of BS

30.5

0.00

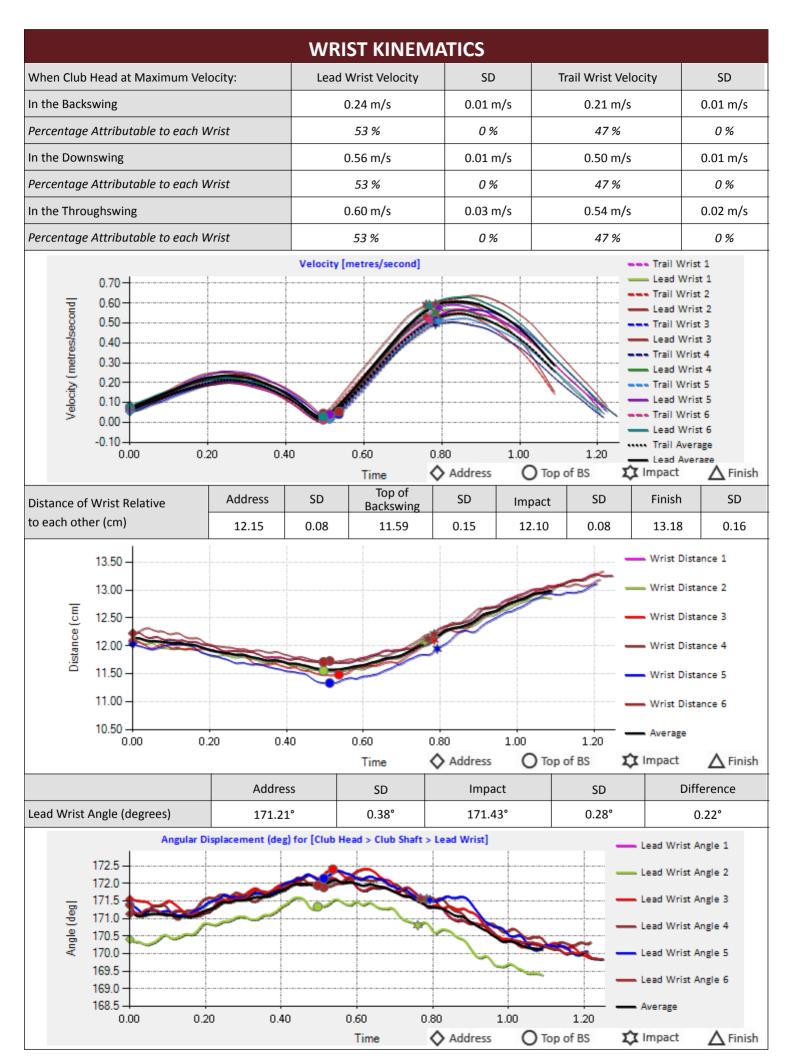
0.20

0.40

▲ Finish

Average

Impact 1



CLUB KINEMATICS								
	Backswing		Do	Downswing		Th	nroughswing	SD
1aximum Velocity of Club (m/s) 0.67		0.03	1.59 0.		0.0	5	1.80	0.09
Location of Club at Max. Velocity (m) 0.18 (Positive = After Impact, Negative = Before Impact)								
Velocity [metres/second] —— Club Head 1								
						Club Head 2		
1.60 —								
1.40 — 1.20 — 1.		//					— Club Hea	d 3
1.60 — 1.60 — 1.40 — 1.20 — 1.00 — 1.							— Club Hea	d 4
A 0.60					++		— Club Hea	d 5
S 0.20							— Club Hea	d 6
-0.20	0.40	0.60	0.80	1	.00	1.20	Average	
0.00	5.40	Time	♦ Ad		O Top o		🌣 Impact	▲ Finish
	Backswing	SD	Dow	nswing	SD	Thr	oughswing	SD
Path Length of Club Head (m)	0.24	0.01		0.22			0.55	0.05
Ratio of DS to TS (Length) 1 : 2.53 (Ratio 1 : 1 = DS and TS same length)								
Tempo (Time):				SD)			
Time of the Backswing (s)	0.50	0.01		1				
Time of the Downswing (s)	0.27	0.27 0.0		1				
Time of the Throughswing (s)	0.44	0.44 0.0		5				
Ratio of BS to DS (Time)	1 : 0.54 (Ra	1: 0.54 (Ratio 1: 0.5 = DS is half the time of the BS)						
Ratio of BS to DS + TS (Time)	1 : 1.41 (Ra	1: 1.41 (Ratio 1: 1 = Same time BS as DS + TS)						
Address	SD	Top of Backswing	SD	lm	pact	SD	Finish	SD
Shaft Angle (degrees) -6.62°	0.44°	-15.46°	0.47	° -7	.08°	0.38°	13.51°	1.62°
Angular Displacement (deg) for [Vertical > Club Shaft > Club Head] —— Shaft Angle 1								
15.0							Shaft Ang	șie 2
= 5.0							Shaft Ang	gle 3
5.0 DD 0.0 DD -5.0							Shaft Ang	gle 4
⊕ -5.0 ₹ -10.0							Shaft Ang	
-15.0	-							
-20.0 -25.0							Shaft Ang	jie 6
	0.40	0.60	0.80	1	00	1.20	Average	
Time Address O Top of BS 🗱 Impact 🛆						▲ Finish		
	5	5 Frames Pre Impact				5 Frames Post Impact		
Attack Angle / Rise Angle of Club (deg	-	-0.03°				3.03°		

A	BOUT PLAYER