

Gait Analysis Report

Surname , Name

Treadmill speed [km/h] 3.00

Analysis date

28.08.2013

Gait velocity [km/h]

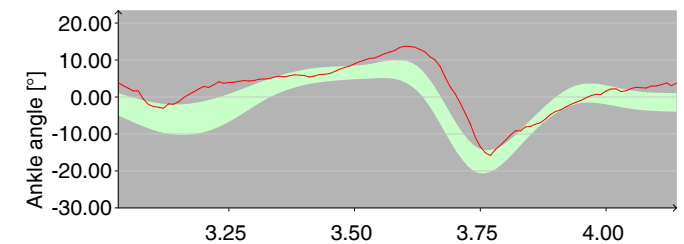
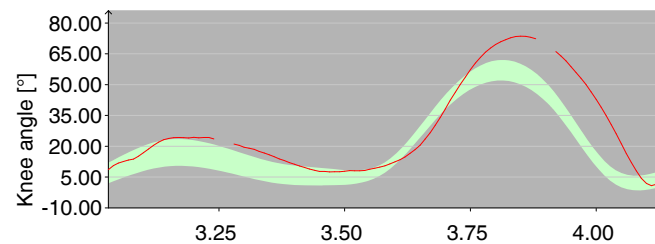
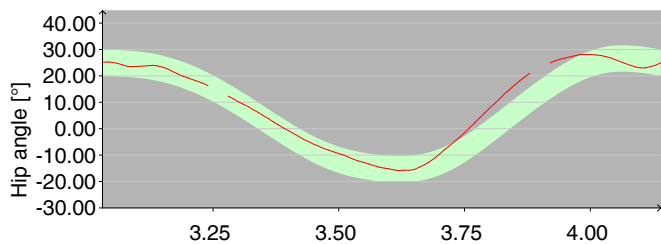
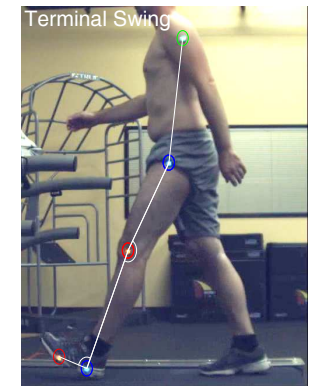
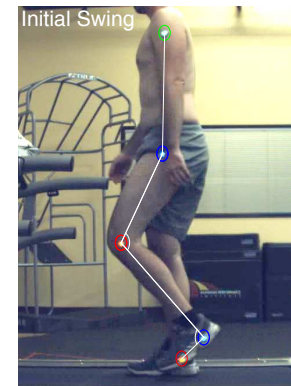
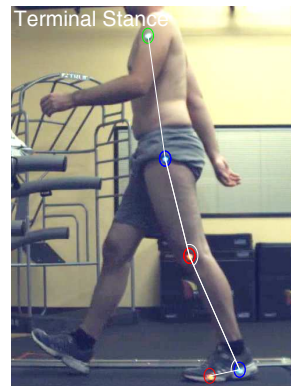
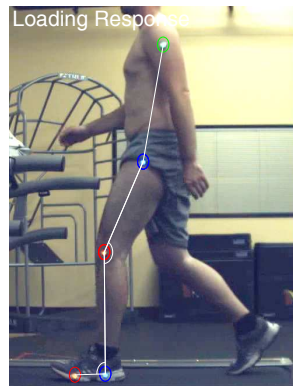
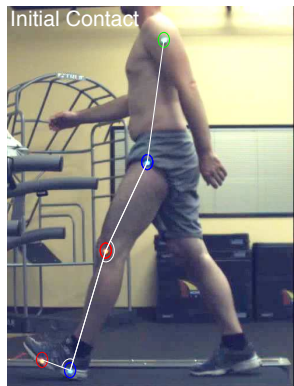
3.06



Gait Analysis Report

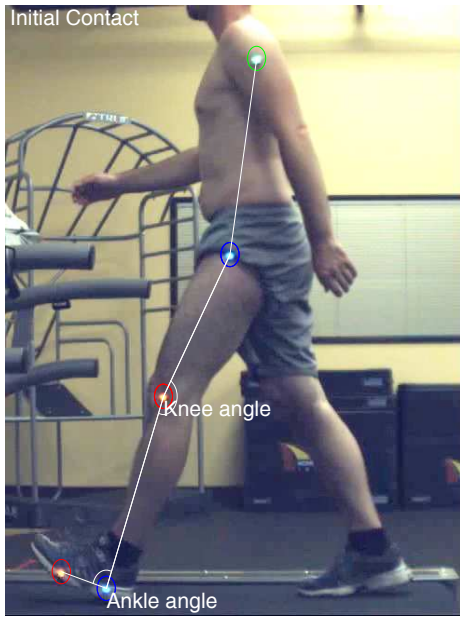
Gait parameters	Target	Actual	Deviation
Stand phase [%]	60%	58.56	-1.44%
Swing phase [%]	40%	41.44	
Double step length [m]	1.41m	0.94	-0.47m

Range of Motion	Target	Actual	Deviation
ROM Hip [°]	50°	43.97	-6.03°
ROM Knee [°]	70°	72.75	2.75°
ROM Ankle [°]	30°	29.58	-0.42°



Gait phases

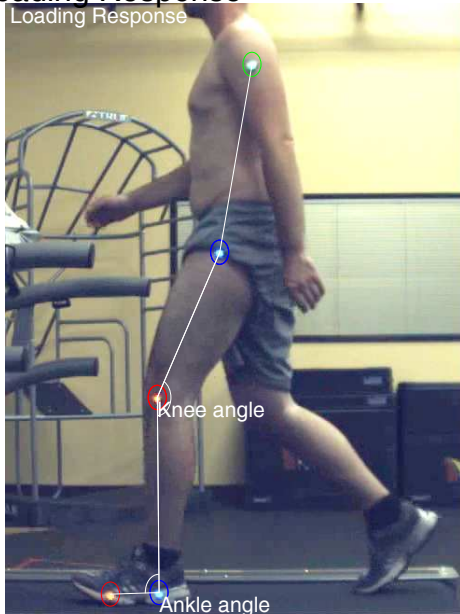
Initial Contact



	Target	Deviation	Actual
Trunk [Flex(+)/Ext(-)]	0°	7.75°	7.75
Hip [Flex(+)/Ext(-)]	30°	-4.87°	25.13
Knee [Flex(+)/Ext(-)]	0°	8.55°	8.55
Ankle [PF(-)/DF(+)]	0°	3.87°	3.87

- Heel contact with the ground

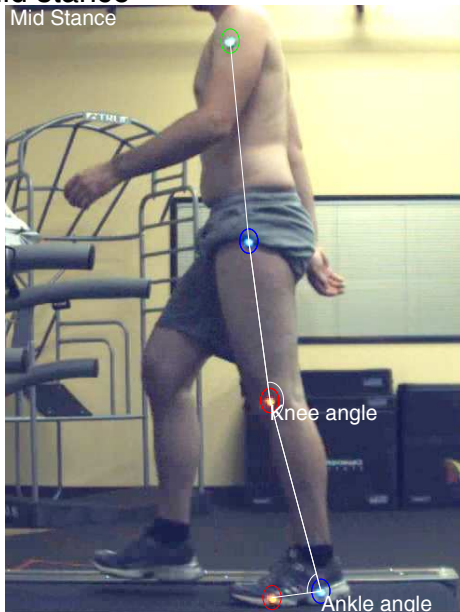
Loading Response



	Target	Deviation	Actual
Trunk [Flex(+)/Ext(-)]	0°	9.77°	9.77
Hip [Flex(+)/Ext(-)]	30°	-6.76°	23.24
Knee [Flex(+)/Ext(-)]	15°	8.75°	23.75
Ankle [PF(-)/DF(+)]	-10°	8.67°	-1.33

- Shock absorption in knee and ankle
- Weight bearing and hip stability
- Forward progression (heel rocker)

Mid stance

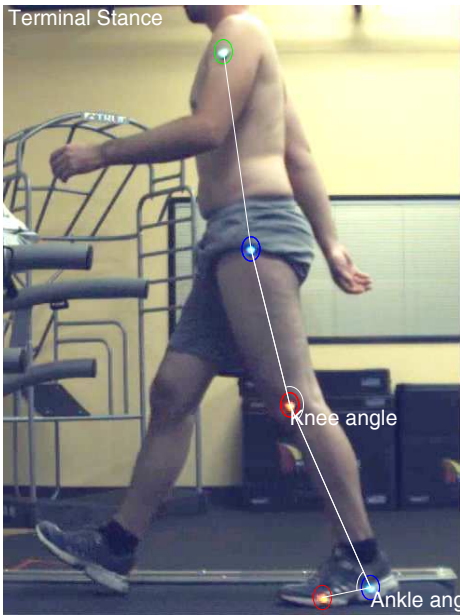


	Target	Deviation	Actual
Trunk [Flex(+)/Ext(-)]	0°	-5.34°	-5.34
Hip [Flex(+)/Ext(-)]	0°	-7.52°	-7.52
Knee [Flex(+)/Ext(-)]	0°	7.46°	7.46
Ankle [PF(-)/DF(+)]	5°	2.49°	7.49

- Hip and knee extension to pull body forward
- Progression of COM over base of support (ankle rocker)

Gait phases

Terminal Stance



	Target	Deviation	Actual
Trunk [Flex(+)/Ext(-)]	0°	-7.95°	-7.95
Hip [Flex(+)/Ext(-)]	-20°	5.99°	-14.01
Knee [Flex(+)/Ext(-)]	0°	9.80°	9.80
Ankle [PF(-)/DF(+)]	10°	2.13°	12.13

- Heel lifts from the ground (forefoot rocker)
- Hip extension

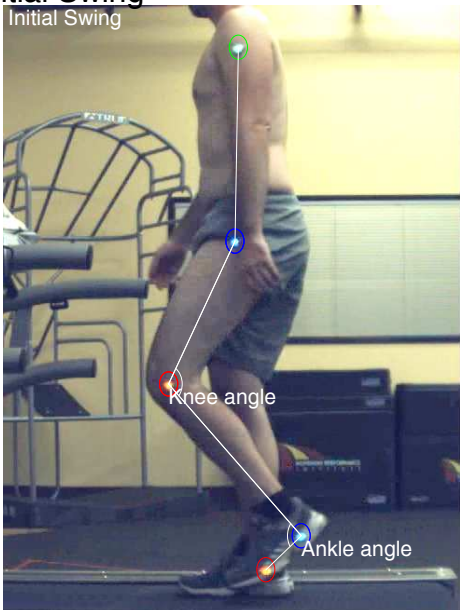
Pre swing



	Target	Deviation	Actual
Trunk [Flex(+)/Ext(-)]	0°	-6.40°	-6.40
Hip [Flex(+)/Ext(-)]	-10°	-2.59°	-12.59
Knee [Flex(+)/Ext(-)]	40°	-9.85°	30.15
Ankle [PF(-)/DF(+)]	-20°	25.40°	5.40

- Initiate limb advancement (hip and knee flexion)

Initial Swing

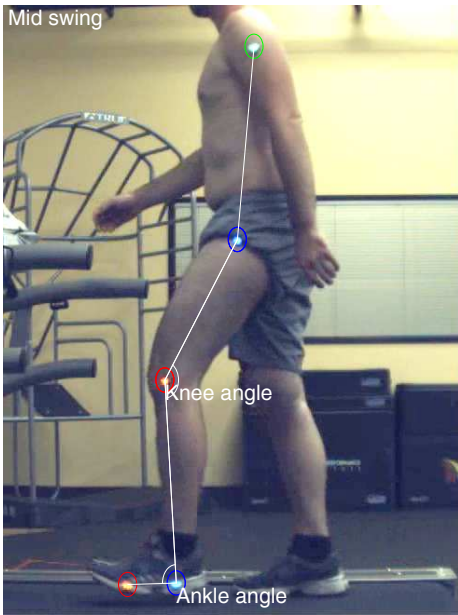


	Target	Deviation	Actual
Trunk [Flex(+)/Ext(-)]	0°	1.02°	1.02
Hip [Flex(+)/Ext(-)]	20°	4.91°	24.91
Knee [Flex(+)/Ext(-)]	60°	6.06°	66.06
Ankle [PF(-)/DF(+)]	-5°	2.30°	-2.70

- Limb advancement (hip flexion)
- Foot clearance (Knee flexion and ankle dorsiflexion)

Gait phases

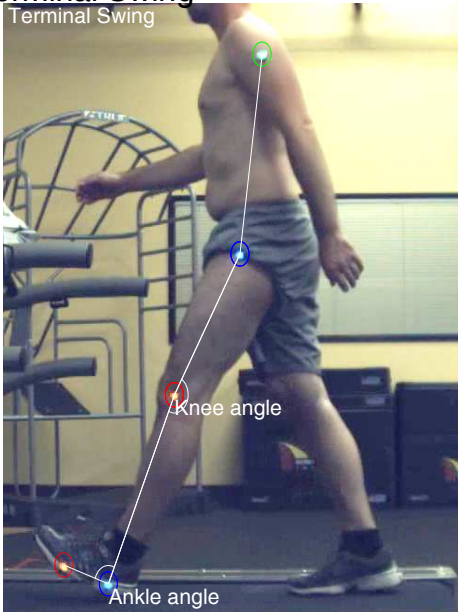
Mid Swing



	Target	Deviation	Actual
Trunk [Flex(+)/Ext(-)]	0°	4.92°	4.92
Hip [Flex(+)/Ext(-)]	30°	-2.72°	27.28
Knee [Flex(+)/Ext(-)]	30°	0.49°	30.49
Ankle [PF(-)/DF(+)]	0°	1.44°	1.44

- Continued limb advancement (hip flexion)
- Continued foot clearance via Ankle dorsiflexion

Terminal Swing



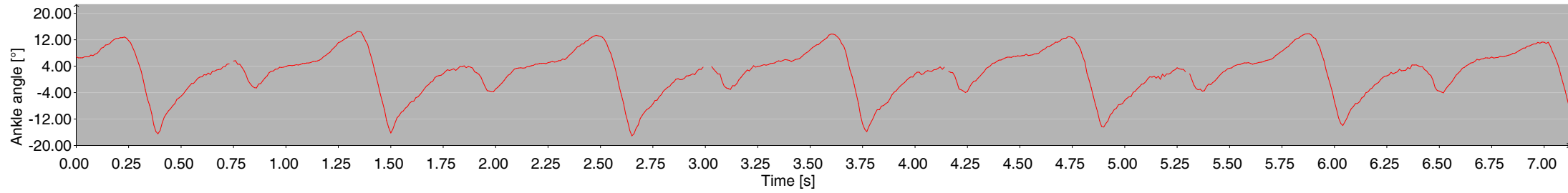
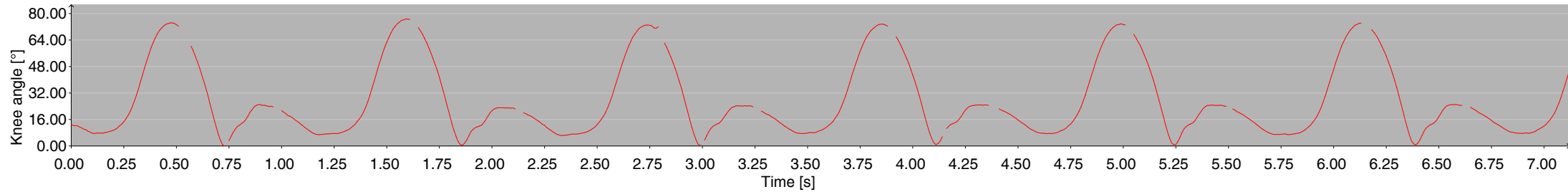
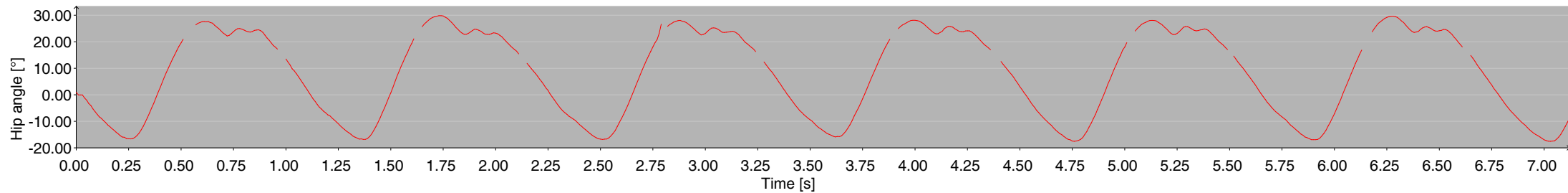
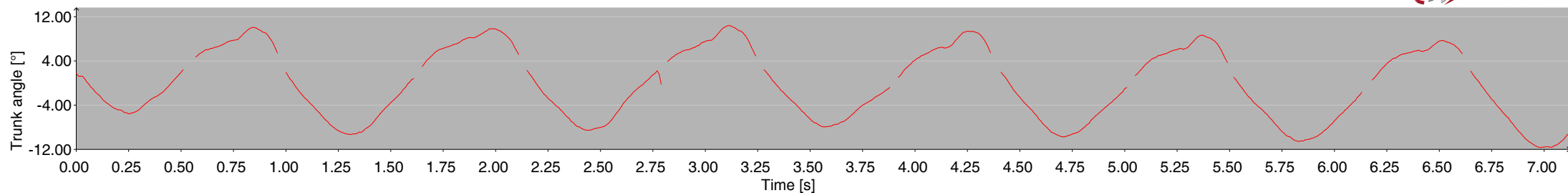
	Target	Deviation	Actual
Trunk [Flex(+)/Ext(-)]	0°	6.32°	6.32
Hip [Flex(+)/Ext(-)]	30°	-5.06°	24.94
Knee [Flex(+)/Ext(-)]	0°	5.66°	5.66
Ankle [PF(-)/DF(+)]	0°	3.71°	3.71

- Complete limb advancement (knee extension)
- Prepare limb for stance (ankle neutral)

All Actual values calculated via manual input (Moment of Interest)

All Target values specified by Perry, J. (2003) and Richards, J. (2008) at free gait speed, phase ending

The responsibility for the use and assessment of the data lies in the hand of the user



Surname , Name	
Sex	
Size [m]	0.00
Weight [kg]	0.00
Birthday	28.08.2013
Analysed side	
Technician	
Location of Examination	

Note: