

02/23

Experiments - William S. Marras

Potentiometers

Onlooker @ lower back

relative difference between upper & lower back

15° steps as far as possible

$\pm 2^\circ$ during experiment

magnetometers -

15 s window for bubbling

in twisting \rightarrow go quickly

5-15 ms delay in wireless

flex position

jerk, velocity (positional), velocity

\downarrow
differentiate
acceleration

transverse motion bending \rightarrow sagittal
(15° steps)

also .umot @ MV moment needs to be isolated

relative bending speed

① thorax

② waist



validation \rightarrow motion capture

③ $\theta_{\text{thorax}} - \theta_{\text{waist}}$

distance of markers

may matter

shoulder motion

one size fits all

Drift

Signal

loss

between

top &

bottom



LED's

5:00 Thursday
Calendar invites

API of Kinect 2.0 order info

Hands dirty Motion capture

Motion sensor Modwick

built in C

2 people

+ MATLAB

Kinect API

Order

- Kinect 2.0

- Wetsuits

MATLAB



Dividing Kinect

showing

3 sensors

br. day + Motion sensors

moving

Jian Wu: jian.wu@tamu.edu.

Sensor Demo env!