

Goniometer Based Measurement of Human Joint Movement using Labview

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Abstract - A goniometer is a device that is used to measure the angle of joints during dynamic movements. Correct measurements of postures of joints are important for study of different musculoskeletal disorders. A goniometer is a type of instrument that either measures an angle or allows an object to be rotated to a precise angular position. Flexion, abduction, extension and adduction are the motions that can be measured by a goniometer. This study comprises of both software as well as hardware parts. Its hardware parts include DAQ, potentiometer, PC and connecting wires and the software which is used is LABVIEW to receive data. The goniometer will provide better measures of postures and movements than the subjective methods such as self-reporting or observation.

Keywords- Goniometer, DAQ, LABVIEW.