

EMG ASSIGNMENT – 2

GROUP - 7

SAIVINAY MANDA (S4845876)

SURENDRA POLAKALA(S4846909)

MANOJ KUNAPALLI (S4848891)

QUESTIONS:

1)Why the down sampling is computed at the end of the EMG processing?

Ans) Down sampling is used to reduce the length (or weight) of the data, to optimize the computations over useful information, it needs to be done at the end of the preprocessing.

2)When the muscle activation starts with respect to the movement (see motion signal)?

And) Muscle activation signal rises a few milliseconds before the movement is performed. As movement is the consequence of the harmonic activations of the fibers. Another component of delay is the limb acceleration time, that entails a transient time before a movement can be registered.

3)Which differences can you detect between the sets with and without the application of the force fields?

Ans) The objective point (target) in practically straight lines. While when force is applied, the direction of the x and y is disoriented, as the deflection can be measured to be disoriented in the lower part of graph.