

DR. ZAIDI MOHD RIPIN

mezaidi@eng.usm.my

Research Proposal :

Dynamic Vibration Absorber for Suppression of Tremor of Hand in Parkinson Diseases

Objective :

- 1) To develop a device based on active dynamic vibration absorber to absorb or reduce the hand tremor of patients with Parkinson diseases.

Background:

I have scoured the internet looking for the data associated with tremor of the hand of patients with PD but could not find any. I know something about "Resting Tremor" where about 70 percent of people with Parkinson's experience a slight tremor in the early stage of the disease - either in the hand or foot on one side of the body, or less commonly in the jaw or face. The tremor appears as a "beating" or oscillating movement. Being an engineer there is a need to quantify this tremor – is it regular, will it be affected by the posture of the hand, will it progresses with the disease. A lot of questions yet so little data.