

ABSTRACT

Wheelchairs are tools used by people who have difficulty in using their foot, either due to illness, injury, or disability. These tools can be moved by other people by using their hand or an automatic machine.

Wheelchairs are tools used by people who have difficulty in using their foot, either due to illness, injury, or disability. These tools can be moved by other people by using their hand or an automatic machine. Wheelchairs have been developed previously by Prayuda Ali (2013), namely the control of muscle or EMG signals were devoted to people with disabilities and disabled legs palms, but rather the difficulty for people with disabilities who cannot move their feet and hands, the limit weight of these tools is 60kg. Based on these problems, the author wants to create a wheelchair with MMA7361 Accelerometer controls because these tools are easier to use by people with disabilities who do not have legs and arms.

From the results of measurements that have been done found that the tools can work, whereby when the patient's head down above the wheelchair to move forward, if the patient's head is moving right then the wheelchair moves veer right, if the patient's head moves laterally left the wheelchair moves turn left, if the patient does not leaning against the wheelchair will stop suddenly. In general it can be concluded that the tool can work as expected.

Keywords: *Wheelchairs, Accelerometer*