

ABSTRACT

Nowadays, people have been studying on how to use machines to replace human. In reality, machines or robots tends to be inevitably important to our daily life to replace works which are unable to be perform by human such as forklift truck, welding machines, grinding wheel and etc in order to carry out construction works. Despite the usage of machines or robotics in construction or engineering filed for higher efficiency and accuracy level, robotics does play a part in medical equipment by facilitating immobile patient to become more independent and self-reliance in order to decrease the burden on medical personnel and families.

Immobile Patient Helper Robot is designed to help patients who are handicapped or physical disabilities by serving beverages. The robot arm is able to captured three different types of beverages by a pre-recorded sound system on the choice of beverages whereby patient would just need to give instruction via a microphone and drinks will be served. Moreover, the robot arm is able to clear the glass from the table once it has been consumed.

Overall, Immobile Patient Helper Robot is designed not only to help the immobile patient, it also decrease the burden of nurse in hospital and also improve the service quality of the hospital. Patients are no longer requiring assistant from medical personnel or families in order to have a drink.