ABSTRACT

Hand-Pose is a form of non-verbal communication with body actions that can be communicated certain messages, either as a substitute for speech or in parallel with words. Information extracted from Hand-pose using the PoseNet application. In this final project, Hand-pose is designed to determine a command that aims to control the *Motorized Vertical Blind* device with the help of a Raspberry Pi. The Raspberry Pi camera is used to capture real-time Hand-Pose movements and Servo Motor as the driving force for the *Motorized Vertical Blind*. Hand-pose dataset images are taken by PC Webcam manually and trained using the Support Vector Machine (SVM). For testing, a Hand-pose image is taken (recorded) from the Raspberry Pi camera and then translated into a command that is sent to the Servo Motor to raise, lower, or stop the movement of the *Motorized Vertical Blind*. This study uses a dataset of 942 and the accuracy for raise pose order is 96% for lower 96% and for stop orders is 100%.

Keywords : **Hand-Pose, Raspberry Pi, Servo Motor, Support Vector, Machine (SVM), *Motorized Vertical Blind***