ABSTRACT

Faculty of Industrial Engineering gives a graphology training and self-development in Telkom University in 2014. Students who follow the graphology training amounted to 80 people. Analysis result, will give to a training institute in cooperation with the Chairman of the Industrial Engineering Program. At the training there are only 3 trainers, due to the studied graphology in Indonesia is still small.

In this final project, sample taken from 30 students of Telkom University. After that, the data will process to Matlab as its servers and Android as an interface for user. This application was created to make it easier for trainers who experts in graphology, to identify a person's personality. Applications need a mobile phone with minimum 3 MP camera to capture user-created handwriting. Three parameters which will be analyzed that is the bottom line of text, margins, and spacing between word

Results of this study is to achieve commonality between systems with manual calculations. Margins with optimal accuracy rate 76.67% was the result of a resolution 480x640, gradient with optimal accuracy rate 60% is a result of the type dilation rectangle and optimal accuracy rate 60% at a resolution 480x640, and accuracy for spacing between words 60%

Keyword : *graphology, image processing, classification*