

## ABSTRACT

In the process of making clothes every company should have quality guidelines to ensure that the product will be delivered to the customer is free from defects and acceptable in accordance with the requirements of the quality control. One of the procedures that must be observed, namely the size of the clothes do have meet the requirements in accordance with the established procedure. To determine the size of the clothes that are in accordance with the quality control procedures required clothing size gauges the length and width of the shirt that practical and doesn't need a long time to determine the size of the shirt.

To solve the problem above, an application was made to measure shirt size using *OpenCV* on a *smartphones* to capture images of the shirt is observed. The making of this application program using the Android Studio software will then be implemented on *smartphones* and the value of the size of the results of detection of the shirt can be displayed on the *smartphones*.

From the results of testing that has been done shows that the accuracy of the system in measuring the length and width of the shirts of different sizes ranging from S, M, L, XL and XXL get a percentage of 99.4% accuracy by using the parameters distance 2 meters .

Keywords : Shirts, *OpenCV*, *Smartphone*