*MONITORING SYSTEM ON AUTOMATIC COFFEE FRUIT SORTING TOOL USING ANDROID*

*By*

**Jaenal Arifin**

*Mechatronics Engineering Technology Study Program, Engineering Department*

*State Polytechnic Of Jember*

## ABSTRACT

*Coffee farmers in Indonesia process the harvest from the garden by sorting the coffee cherries manually. There is a need for tools that help ease the burden on farmers for sorting. Having an automatic coffee fruit sorting machine will help farmers to minimize excessive economic expenses for paying people to solve the problem of sorting coffee manually. This research is included in the type of experimental research. The experimental method can be interpreted as a method for looking for other influences under controlled conditions.*

*In this research, 2 stages were carried out, namely preliminary research and main research. The main research includes the process of inputting data resulting from the previously carried out process which will be displayed on the LCD screen, namely displaying the weight of the good coffee cherries that have been sorted.*

*The results of data connectivity testing aim to find out how long it takes data to be sent using the internet network. And you can find out the delay that occurs in sending data to the MIT App Inventor application. In the data retrieval process, internet speed greatly influences the value of sending data to the MIT App Inventor application. The lower the internet signal strength, the data transmission process in the MIT application will affect the values displayed on the LCD screen, causing difference sin values*

**Key Words:** *coffee, Microcontroller, Android, MIT App Inventor*