ABSTRACT

The development of technology requires a high work efficiency in terms of quality and quantity produced include accuracy and speed in the process of work. Therefore, the end of the project on the Design Build Process Charging the Ball Mill is intended to help this problems.

In this final design project used a series of Band Pass Filter Properties of the required value of Q so that the received frequency range can be more focused on a specific range. It also used a series of F to V Converter (Frequency to Voltage Converter) to change the frequency as a voltage where the voltage will be made as set point, which is used transducer from microphone, and use the driver for the motor valve and disposal of material in which each valve using 2 fruit relay (to play back the right-left). In the end this project used mikrokontroller ATMega 16 and AVR programming CodeVision with the programming language C++.

Keywords: Control, Band Pass Filter, Mikrophone, Frequency, ATMega 16.