**ABSTRACT** 

FANN CONTROLLING SYSTEM USING SPEECH VIA

**ANDROID** 

In the current era of globalization, technology is developing rapidly. Many

tools or robots are made to help human work that works automatically.

Fan is one of the household electronics that is almost owned in every

home, as well as an android smartphone that is owned by everyone. To carry out

the use of a fan, the user usually must immediately come to the fan to press the

button on the fan. The author feels it is not eazy to do and the position of the fan

that sometimes hard to reach so the author has an idea to develop an existing fan

using an application on Android as a medium to run the utility of a fan without

having to go to the fan. The fan will be moved through voice input which will be

converted into text so that it can be read by Arduino with the principle of speech

to text or *speech recognition*.

At the completion of this final assignment, the test results from the

application show 100% success against 10 different voices of people with

commands that have been adjusted according to the authors specify. And

Bluetooth communication is still running well at a certain distance where when

there is no obstacle Bluetooth works optimally that is up to a distance of 30

meters while with some barriers such as glass, walls and between different rooms

Bluetooth has a maximum working distance of different meters, namely 20 meters

for glass, 14 meters for walls and 10 meters for inter-rooms.

Keywords: speech to text, speech recognition

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