**ABSTRACT** 

Cell phones or mobile phones only be used in the telecommunication

media. Current hardware is embedded in mobile phones, especially with the

Android operating system is very diverse. Processor specifications that qualified

were planted to support the performance of sensors embedded in mobile phones

with the Android operating system. In terms of software (Operating System), a lot

of Source Code is provided free of charge, to develoed the applications for the

Developer. This is exactly encourage the use of a mobile phone based on Android

OS as the brain processing information on a mobile robot control by utilizing a

variety of existing sensors.

Information processing such as voice recognition which requires a fairly

large database can be backed up with the role of mobile phones based on

Android OS. Various sensors are located on Android Mobile can be used on a

robot. The role of voice recognition sensor on a mobile robot can be replaced by

the Android mobile OS.

On this project, obtained a mobile robot that is connected to a mobile

phone using Bluetooth module with the Android operating system and Java-based

applications as the user interface. Mobile robot can be moved by using human

voice that processed on the mobile phone with Android operating system and the

summary of all project testing have 20,5% error rate.

**Keywords:** Mobile Robot, Android OS, Microcontroller, Handphone

ii