# ANDROID-BASED ACCIDENT REPORT SYSTEM USING GLOBAL POSITIONING SYSTEM

UNDERGRADUATE THESIS

Submitted as one of the Requirements to obtain
Sarjana Komputer (S.Kom.)

By:

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Cikarang, Bekasi, Indonesia

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# ANDROID-BASED ACCIDENT REPORT SYSTEM USING GLOBAL POSITIONING SYSTEM

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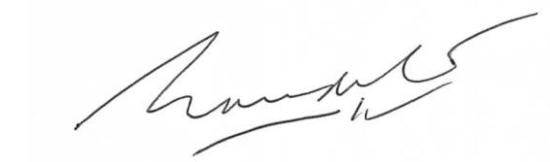

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# ABSTRACT

A traffic accident is an unpredictable event and is considered hardly minimized. An Android-based accident report system using a global positioning system (GPS) is developed in this final project by utilizing Android smartphone features that aim to speed up the reporting procedure when a traffic accident occurs.

The methodology used to develop the final project is Rapid Application Development (RAD). This methodology is used purposed to minimize the planning stage and maximize the prototype stage which results in greater efficiency and faster development of the Android-based accident report application.

This study finds that utilizing a camera and the geographical pinpoint location through GPS in an Android smartphone, could speed up the reporting process due to the quick procedure and accurately give a precise location of an accident by sending the current location from the user's smartphone. An additional feature to see the accident location is also added to the application, allowing the users to find the accident location accurately. This study also finds that Android applications and smartphone utilization can improve the experience of using public services. Future work that can be improved to the application and the system is adding a traffic accident map to visualize traffic accident spread and creating an iOS platform designated for iOS users.

***Keywords**: Android, Application, System, GPS*

# DEDICATION

*I would like to dedicate this final project to myself and my parents.*

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Alhamdulillah, praise, and gratitude to the presence of Allah SWT for His blessings to finish this final project. To those who have supported me during the process to finish this thesis as one of the requirements for fulfilling the Bachelor of Science degree. On this opportunity, I would like to express my gratitude to the following:

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