DEDICATION

We dedicate this research to our parents, who raised us well, told us right from wrong, make sure we had a good education and help us reach this point of higher education, without them we wouldn't be here. Also, this research is dedicated to brothers, sisters and family for sharing our journey and for making sure that we have all the support we need.

Our friends are never forgotten, for always providing us with much love and support.

ACKNOWLEGEMENT

ABSTRACT

Automatic license plate recognition system is a system that processes images and videos using a detector and OCR technology to determine the vehicle plate from the content of the image or video without direct human intervention.

This technology is performed to simulate the human work of recognizing the image with decreasing the human intervention to make as possible to be like an automatic recognition system. This system applied by many systems.

This application is programmed using the capabilities of Open source Automatic License Plate Recognition library (OpenALPR) which uses many functions and algorithms to manipulate and process the image.

The system will receive an image or video which contains the license plate number as an input, then the system extracts the plate. Optical Character Recognition mechanism (OCR) identify the plate characters, Finally the system compares the extracted plate number to a local database to get a full information about the car and its owner which can be used to perform any function that the system was designed for.