

Final Year Project Report
Car number plate recognition system



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Session

2012-16, 2013-17

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Dedication

We would like to dedicate our work to our parents who provided us with the opportunity to study in one of the best universities of Pakistan to complete our B.S (Software Engineering).

Final Approval

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Acknowledgment

We would like to give our gratitude to our project advisor Dr. Masroor Ahmed who enlightened us with his knowledge and helped us in every way possible to complete this project.

We would also like to thank all our teachers who taught us courses from scratch and enabled us to complete our Bachelor's degree while learning new skills, and tools to become professional Software Engineers and serve our country to the best of our abilities.

Project Title

Car Number Plate Recognition System

Objective

To Automate Process of Vehicle Identification

Undertaken by

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Starting Date

December, 2016.

Completion Date

July, 2017.

Tools Used

MATLAB

MATLAB Image Processing Toolbox

Operating System

Windows x64

Plagairism Report

University of Management and Technology, Lahore

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Abstract

Tracking of the registration number from the vehicle is an important task, which demands intelligent solution. Identifying registration number without direct human intervention for traffic surveillance is important field of interest. The speed with which technology is getting maturity is enough for employing various systems like traffic violations monitoring. We are looking for some fully automated systems that are competent enough in order to regulate the traffic. Vehicle verification, is an active area in image processing as well as traffic management. Managing traffic and providing security is a serious issue. Because of increasing tendency in employment of vehicle in crimes anomalies have to be found with the help of technology and its advancements. Possibility of blacklisted vehicles cannot be ruled out. So, we need a digital system to efficiently track culprits.

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DEFINITIONS AND ACRONYMS

Acronym	Definition
LPR	License plate recognition
ANPR	Automatic Number Plate Recognition
VLPR	Vehicle License Plate Recognition
CNPRS	Car Number Plate Recognition System

Table 1: table of acronyms and definitions.

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1. INTRODUCTION

1.1 Motivations

Road travelling is below and not up to the safety standards, violation of traffic laws is frequent, lawlessness has substantially increased which lead to road accidents. Pakistan is not an exception, drivers who violate traffic laws can be found anywhere in the world also, malfunctioning of vehicle can also be the cause of road accidents. According to a report by WHO (World Health Organization) approximately 17 people per 100,000 die because of road accidents. The speed with which technology is getting maturity is enough for monitoring various systems like traffic violations. We need to have a proper, effective efficient and reliable traffic monitoring system. In order to provide safe travelling over the roads in existing conditions, we badly need to have a system which can monitor all these violations and can get activation in order to avoid some big disasters.