Automatic Number Plate Recognition System

ANPR system was my final year project, which was done at an independent level. This project was worth 8 credits, and I'm honoured to state that I received the full 8 credits with an A+ (9) Grade Point (9 on a scale of 10)

Please find the abstract of the project's thesis below.

ABSTRACT

Automatic Number Plate Recognition (ANPR) system is a security system which can be deployed at the entrance for security control of a highly restricted area or on school/college campuses and can even be mounted on toll roads or for traffic monitoring. There are numerous ANPR systems on the market today, which are based on different methodologies. Because of the following complications, i.e., Dynamic lighting conditions including reflections, shadows, and blurring, Fast-moving vehicles and Obstructions, developing a robust ANPR system necessitates a sophisticated effort. Keeping the limitations in mind, this paper discusses a different approach to ANPR. The concept of computer vision, image processing and Optical Character Recognition is used in our approach to developing an Automatic Number Plate Recognition system. We built the ANPR system while also integrating it with a database. The resulting data (number plate characters) obtained after applying the OCR algorithm is then compared with records on a database in order to obtain specific information such as the vehicle's owner, place of registration, address, and so on.