

Automated Vehicle Parking System And Unauthorized Parking Detector

Ishraq Haider Chowdhury^{1,2,3}, Afsana Abida^{1,2,4}, Md. Mehedi Hasan Muaz^{1,2,5}

¹*Military Institute of Science and Technology, Dhaka, Bangladesh*

²*Department of Computer Science and Engineering*

³ishraq.h.c@gmail.com, ⁴afsanamist37@gmail.com, ⁵mehedihasan2760@gmail.com

Abstract— In this modern world, with the rapid growth of population vehicle traffic has become a part of our day to day life. Moreover, unauthorized vehicle has also increased. Thus our proposed system aims to ensure proper management of vehicles in the public places such as educational institute, office etc in order to prevent unauthorized vehicle parking and traffic. The features include detection of permitted and non-permitted vehicles on the main gate, detection of unauthorized vehicle parking in the restricted zone thus sending SMS to the authority to take action and taking fine from the vehicle user. Parking charge is also taken from the parked vehicles inside the parking lot before they leave. There are also parking lights which will be lit whenever a car enters a specific parking lot.

Keywords—RFID Reader, GSM Modem, SMS, IR Sensor Module, Alarm, Resistor, Visitor Counter, Automated Light, Unauthorized Parking Detection

	<p>Ishraq Haider Chowdhury was born in 1993 at Dhaka, Bangladesh. He is a final year student of Military Institute of Science and Technology (MIST) in Department of Computer Science and Engineering. He has research Interest in Image Processing, Computer Interfacing and Artificial Intelligence. His projects include controlling intensity of light in a room using artificial intelligence. He also has a certification on Mobile Application Development.</p>
	<p>Afsana Abida was born in 1996 at Chittagong, Bangladesh. She is a final year student for BSc in Computer Science and Engineering in Military Institute of Science and Technology (MIST). She has research interest in Image Processing, Cyber Security and Artificial Intelligence. She has done a project named “A Smart way to Control the Intensity of Light” in Artificial Intelligence. She has two web development projects named “CureCancer.net” and “MybookPal”. She has received a certification on “Mobile Apps Development Course”. She has also made a game development project named “The Adventures of Lara Croft” on Computer Graphics.</p>
	<p>Mehedi Hasan Muaz is a final year student of department of Computer Science and Engineering in Military Institute of Science and Technology (MIST). He was born in 1994. His research interest is machine learning and algorithms. He has been working as a software engineer on laravel platform during last 1 year. Currently, his research is on improvement of diabetes prediction models with machine learning techniques.</p>