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Solar Operated Car Parking System with Coding

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Abstract: This project report has shown the concept of automatic car parking system, which can automatically sense the empty space available for parking and according to it displays the number of empty platform available on the LCD. This automated car parking system reduces the time taken to check the space for the vehicles. In this proto we used the infrared sensor s which are placed on each of the floor, to sense the cars. The system is developed using 89S52 Micro Controller. It also uses the worm and worm wheel mechanism for lifting the cars and placing it on the platform, two D.C motors are used, one for rotating the lifting mechanism in 3600 and another one for placing and picking the cars using the worm gear attach to its shaft. Our motive of the project was to make parking system which is easy, consume less space, quick technology, self—operated and safety of vehicles.

Keywords: Infrared Sensor, microcontroller, worm and worm wheel mechanism, LCD display, relays.

REFERENCES

- [1]. Noor N.M. Z.Razak and Mohad Yamani, car parking system: A review of smart parking system and its technology. Information technology Journal.
- [2]. C Patel, M. Swami, P. saikia, S. shah, Rotary automated car parking system international journal of Engineering science and Innovative Technology[IJESIT].
- [3]. Microcontroller based Car parking system Shtaln B. Dhote, Mamta B. Tayade, Sagar Dilip Bharambe India, Volume 4, Issue 6 June 2014 ISSN: 2277 128X International journal of Advanced research in computer science and software Engineering research paper available online at:.
- [4]. E.S. Kardoss, K. Balliant, I. Wahl, Design of semi autonomus park assist system," proceedings of the European Control Conference, 2009, pp.497-516.
- [5]. J. Pohil, M.sethsson, P. Degerman and J Larsson, "A semi-automated parallel parking system for passenger cars." Proc. I Mech E Vol. 220 part D: J. Automobile Engineering, 2206, pp,53.

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- [6]. R. Charectle. "Smart Parking system make it easier to find a parking space."
- [7]. Dynamic of machinery- tech max- Dr. F. B. Sayyad, 2015-16
- [8]. Workshop technology-vol:01-s. K. Hajra Choudhury, A. K. Hajra Choudhury, Nirjhar Roy.