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Microcontroller Based Electronics Designs to Make the Everyday Tasks Simplified by Shubhranshu Agarwal

Electronics trade seems more interesting than other trades because we witness new arrivals in technology upgrades every day. Some of these new arrivals are invented for making our lives better, convenient and more secured while some are invented to make the ongoing processes more cost efficient. However, many electronics trade professionals hardly get time spared to be invested to brush up their knowledge because of professional and personal engagement. In this scenario, online Electronics For You magazines emerge as the best solution for the professionals who always want to know the latest electronics designs.

Numbers of online Electronics magazines are available to brush up our knowledge; however, each comes with specific purpose. Each magazine has different sections like Circuit lab, electronics design, Videos, Careers, microcontroller Projects, Test & Measurement, Innovators and Interviews, Resources etc. Articles published in these magazines are very helpful for the professionals, students and innovators who want to create useful products by self for different purposes which may be academic DIY project, to enhance security, to reduce the production cost or to improve the production. Recently I came across two gadgets- RFID-Based Automatic Vehicle Parking System and RFID-Based Security System about which detailed articles appeared in a world famous online electronics magazine.

RFID-Based Automatic Vehicle Parking System seems a concept but you can shape it up. To get started with this automatic vehicles parking system, vehicle owner needs to register his vehicle with parking owner for getting a RFID tag. While parking the car, RFID tag is kept near RFID reader installed near entry gate of parking lot. As soon as reader reads the RFID tag, the microcontroller system deducts the specified amount automatically from RFID tag and triggers the entry gate to open for allowing the car parking inside. Simultaneously, parking counter reading becomes one more. Similarly, the door is opened while coming out of parking and the parking counter reading comes down by one. The facility of recharging RFID tag can be added with RFID-Based Automatic Vehicle Parking System. Thus parking becomes completely automatic with enhanced security.

RFID-Based Security System is another great gadget. This access-control unit allows only authorized persons to get entry in to a particular area of establishment. The unique tags are given to authorized persons. These people use these tags to get access the particular zone. Every time they enter or exit the area, they need to use the tag card. The electronics design uses micro controller AT89C52. It comprises an LCD module, relay for door opening and RFID module. RFID systems are commonly used in automatic payment systems, access control, product tracking and inventory control etc. RFID system consists of antenna or coil, transceiver and decoder and RF tag also called transponder.

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Shubhranshu Agarwal is an eminent and amateur writer primarily focusing on do it yourself projects, Electronic Circuits, Active Reflector for Pedestrian Safety, Analogue Wattmeter, a target_new Electronics Design, Clap-Based Digital Volume Control, a target_new Microcontroller, Circuit

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