

SECURE QR SCAN ENABLED MEDICATION VENDING MACHINE

Dr. J. S. LEENA JASMINE¹, YASHWANTH SAI K², UDAY KUMAR.K³, GOKUL V D⁴

¹ Professor^{2,3,4} UG Students, Department of Electronics and Communication Engineering,
Velammal Engineering College, Chennai

Limited to a particular task and serves a particular function and they are a great help in real time system because they are very quick in performing their operations. Embedded system consists of a microcontroller, which contains a microprocessor, memory for storing data and programs, AD converters, DA converters which convert analog signals to digital signals and vice versa; sensors and actuators. Embedded systems include a variety of applications which not only safety-critical applications such as automotive devices and controls, railways, aircraft, aerospace and medical devices but also communications, 'mobile worlds' and 'e-worlds', the 'smart' home, clothes, factories etc. These applications have an enormous impact on our society, including security, privacy, and modes of working, living and health. More than 98% of processors applied today are in embedded systems, and are no longer visible to the customer as computers in the ordinary sense. New processors and methods of processing, sensors, actuators, communications, and infrastructures are 'enablers' for this very persistent computing. They are in a sense everywhere, that is, almost invisible to the user and almost omnipresent. As such, they form the basis for a significant economic push. How Embedded Systems are Being Used for Biomedical Applications There are many ways that doctors have been able to adopt embedded systems for biomedical purposes. With the IoT (Internet of Things) becoming ever more connected, doctors are now able to remotely monitor their patients. Embedded devices are also able to help patients treat themselves and can be used for preventative medicine. Prosthetic technicians have also been able to make their prosthetics more advanced. These are the most revolutionary uses of embedded systems in the healthcare industry.