

## Automatic Railway Gate Control Using 8051 Microcontroller

*Embedded Controller Forth For The 8051 Family* William H. Payne 2012-12-02 The purpose of this book is to present the technology required to develop hardware and software for embedded controller systems at a fraction of the cost of traditional methods. Included in the book are hardware schematics of 8051 family development systems (single board and bussed 8051 microcontroller). Source code for both the 8086 and 805 family FORTH operating systems is published in the book. Binary images of the operating systems can be generated from the source code using the metacompiler also contained in the book. The book can be seen as a "toolbox" including all the necessary hardware and software information to be used in constructing 8051-based controller systems.

*Plc Bible and Automatic Rail Gate Control and Security Using 'Plc'* Md. Nazmul Hasan 2012-08 This book is focused on the "Rail Way Gate" is controlled by human resource till now in our country. So some manpower is engaged for this non-productive work. Sometimes for some unfortunate signal transformation mistakes, citizen fall immeasurable damages. From the sense of humiliation development and save our resource by the gift of modern electronics. I take the research about "Automatic Rail-way gate control" by using 'Programmable Logic Controller (PLC). PLC is the devices which give us a vast option of process and procedure to make many works by using a single device. PLC can work in any situation or place wherever is it. It can work in low voltage of electronics environment. So any devices which can work with relay is used on PLC. There are many further scopes of development on this project. We worked on the railway gate control topology but the system is not end on this stage. It has many scopes on software development, method development and instrument enhancement etc. I want to develop it in future world.

**Applied Approach to Privacy and Security for the Internet of Things** Chatterjee, Parag 2020-06-26 From transportation to healthcare, IoT has been heavily implemented into practically every professional industry, making these systems highly susceptible to security breaches. Because IoT connects not just devices but also people and other entities, every component of an IoT system remains vulnerable to attacks from hackers and other unauthorized units. This clearly portrays the importance of security and privacy in IoT, which should be strong enough to keep the entire platform and stakeholders secure and smooth enough to not disrupt the lucid flow of communication among IoT entities. Applied Approach to Privacy and Security for the Internet of Things is a collection of innovative research on the methods and applied aspects of security in IoT-based systems by discussing core concepts and studying real-life scenarios. While highlighting topics including malware propagation, smart home vulnerabilities, and bio-sensor safety, this book is ideally designed for security analysts, software security engineers, researchers, computer engineers, data scientists, security professionals, practitioners, academicians, and students seeking current research on the various aspects of privacy and security within IoT.

**Design and Implementation of a Parking Gate Controller Using Atmega3289 Microcontroller** Pruthviraja Bhupal 2017 The objective of this project is to design a cost-effective Parking gate controller for a sliding gate. Atmel-based microcontroller is used to control the whole operation. The parking gate controller system has to auto-detect the automobile and open the gate if it is moving out of the parking lot or use a RF remote to open the gate. If the automobile is moving inside the parking lot, then RF remote is used to control the gate operation. An obstacle sensor is used to detect the presence of the obstacles in the way of the gate. When the gate is closing from an open position and if there is any obstacle in its way then the obstacle sensor detects it, the controller opens the gate. The system is designed using Arduino microcontroller embedded system and the design is done using its Integrated Development Environment and embedded C. The design presented in this project is flexible for any of the microcontroller family not just restricting it to the Arduino embedded system. Easy installation and working procedure are explained in this project.

[Science Abstracts](#) 1993

**Automatic Unmanned Railway Gate Control Using Solar and Object Sensor** Kalaivani M 2019 This

paper discusses about solar-based automatic unmanned railway gate using object sensor was used to avoid accident both on the gate and on the track. It consists of two IR sensors and by using those sensors the accident was avoided in the gate. If the vehicle got struck on the railway track during the closing of railway gate, the ultrasonic wave travels and touches the body of the object and is reflected back. The reflected waves are received by the receiver on the train; the distance was measured and displayed on the digital display to the train driver. By using the above formula the distance of the object from the train was calculated and by using that accident was avoided. Ultrasonic waves travel very fast in air medium which is 0.0004 rays.

## Automatic Railway Gate Control Using 8051 Microcontroller

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