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| **Title:** | Design and Development of PC Based Elevator Control Systems via ATmega32 Microcontroller | | |
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| **Abstract:** |  |
| Abstract— This paper presents a microcomputer-based elevator control system via ATmega32 microcontroller for the Control Systems Laboratory of the Department of Electrical and Electronic Engineering of the Green University of Bangladesh. By analyzing the existing elevator control systems and thus making improvements, the paper carries out an experimental implementation with the simulation software. To control the elevator system, a microcontroller development board, a prototype elevator system using DC motor, gear, controller circuit, etc. and Proteus professional simulation software is used. An assembly language program has been developed for the microcontroller to detect the correct floor numbers through various sensors via input-output ports of the microcontroller. This paper shows the operation of the overall control system to achieve cost-effective elevator automation. Simulation and experimentation show that the elevator system is performing very well. | |