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**ABSTRACT**

Nowadays, Myanmar is a developing country and there is enormous increase in high rise building. An elevator is one of the important aspects in electronics control system of automatic application. In this thesis, the elevator control system is fully automated using Arduino. The major components of the design are Arduino MEGA, Stepper Motor, DC Motor, Push-button, Keypad, Seven-Segment Display, Buzzer, Limit Switch, Inductive Sensor, Ultrasonic Sensor and other components. The elevator control system is intended for three floors buildings. Its control is based on the input that can be obtained from the operator as well as from sensor. In this thesis, C program is used for three floor control system. The program installed in the Arduino determines whether the car goes up or down according to the last visited floor. According to the signal, the up and down motor can be driven and the door motor can also be operated correspondingly. DC motor are used to control the door open or close and stepper motor is used for up and down movement of the elevator car. Push-buttons are used to call the elevator car. Inductive sensors are used for detecting elevator car when elevator car reached to its destination floor. Seven-segment display is used to show the position of elevator car.

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