

Design of an electronic perpetual calendar using PIC microcontroller and DS1307

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Abstract: In the context of increasingly developed informatization, the design of an electronic perpetual calendar system has become an important need. This project aims to build a perpetual calendar system using a PIC microcontroller and a DS1307 real-time clock to provide a countdown clock solution and accurate time information, meeting requirements in various fields such as education, culture, and industry. Through theoretical research combined with experimentation, the project hopes to contribute a useful tool to modern life while also contributing to the development of Vietnamese electronic technology.

Keywords: Electronic perpetual calendar, PIC Microcontroller, DS1307 Real-Time Clock, Countdown timer, Time information provision