

Research on the application of microcontrollers with GPS modules

To Thanh Lam

Abstract: This topic aims to study the application of microcontrollers in combination with GPS modules to create an automatic positioning and monitoring system. The context of the topic stems from the high demand for accurate positioning in many practical fields such as transportation, agriculture, and aquaculture. The objective is to build a solution that optimizes the monitoring and management process through the integration of microcontrollers with GPS. The research method combines theory and experimentation to evaluate the system's effectiveness. The significance of the topic lies in its ability to improve accuracy and performance in positioning applications, while also making an important contribution to the development of IoT technology.

Keywords: Microcontroller, GPS, Monitoring system, IoT technology, Experimental research