

Building measurement and control practice exercises with the MSP430 microcontroller series

Duc Minh Dong

Abstract: This topic aims to research and implement practical exercises on measurement and control using the MSP430 microcontroller family. The context is the rapid development of IoT technology, which requires many practical applications to have high flexibility and efficiency from compact microprocessors. The objective is to build a measurement and automation system for devices in the IoT network through the powerful capabilities of the MSP430. The research method combines theory with experimentation to ensure the comprehensiveness of the system. The expected results will provide a flexible, cost-effective, and environmentally friendly solution for automated measurement applications.

Keywords: MSP430 microcontroller, IoT, automatic measurement, microprocessor technology, control system