

Building basic practice exercises with the MSP430 microcontroller series

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Abstract: This project aims to build and deploy basic practice exercises for the MSP430 microcontroller series, meeting the training needs for programming skills and system design for students. Through theoretical research on the characteristics and architecture of the MSP430 combined with experimental implementation on software platforms and electronic circuits, the project targets the development of a comprehensive set of learning exercises. The results of the project not only provide students with solid knowledge of microcontroller technology but also contribute to promoting development in the fields of IoT and automation.

Keywords: MSP430 microcontroller, programming practice, IoT system, electronic circuit design, technical education