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THE MODEL OF AN 8-BIT MICROPROCESSOR SYSTEM

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In this work, we present a model of an 8-bit microprocessor system designed as a visual aid for the courses like Microprocessor Systems, Microprocessor System Programming, and Design and Manufacturing Technology of Electronic Devices. The study aims to help students understand better the typical 8-bit microprocessor structure of a.

The 8-bit microprocessor serves as an excellent example to explain the logic behind such systems. It is particularly suitable for introducing beginners to some of the most fundamental concepts underlying computer operations.

A typical 8-bit microprocessor contains the essential components required for a functional computer. Its primary purpose is to develop a basic understanding of how a computer operates, including its interaction with memory and other system components such as input and output devices.

The assembly will be implemented on breadboards. Most components are based on widely available hardware, making it possible to replicate our project if needed.

Through our work, students will gain a clearer understanding of Computer Science that combines various fields of knowledge essential for professionals working with computers and computations.

REFERENCES

1. Kovacs Pal. K. Transient phenomena in electrical machines. Ch. 2. Induction motors. – Budapest: Akademiai Kiado, 1984. – 391 p.