Abstract

In the diploma work, a "Smart Office" system was created to control lighting and office networks. The resulting model of the system is able to receive data from sensors and control lighting and power supply regardless of an external power source.

In this thesis the following tasks were solved:

- Analysis of existing systems and ready-made solutions;

- Comparison with ready-made solutions;

- Design and development of a system management program.

The practical significance of the hardware and software complex developed on the base can be used in private homes and offices to promote LED office and energy saving office. The system is easily replaceable and expandable, which makes it possible to use this software and hardware complex as a laboratory table during practical exercises.