

Research on Bluetooth Low Energy (BLE) communication technology and building applications in healthcare.

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Abstract: In the modern context, the necessity of effective wireless communication solutions is increasingly affirmed. This topic aims to conduct in-depth research on Bluetooth Low Energy (BLE) technology, an energy-efficient wireless communication technology suitable for various medical applications. Through the experimental process, the topic will build and deploy a BLE application to support personal health management, thereby contributing to improving the quality of healthcare services. By integrating new features of BLE into the health management system, the project expects to achieve high efficiency in enhancing monitoring and support capabilities for patients.

Keywords: Bluetooth Low Energy, Healthcare, Wireless Communication, Health Management System, Application Experiment