

Building a Bluetooth communication application with the STM32 kit on the Android operating system.

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Abstract: In the context of the rapid development of mobile technology, building a Bluetooth communication application on the Android Operating System with the STM32 Development Kit aims to meet the need for fast and efficient connectivity between mobile devices and peripherals. The objective of this project is to design and implement this application system, with the goal of addressing issues related to data transmission between mobile devices and peripherals via the Bluetooth protocol. The research method includes experimentation based on theoretical modeling combined with source code development for Android and STM32. The project aims to contribute a flexible and efficient solution for wireless communication between mobile systems, thereby promoting the development of Bluetooth technology in practical applications.

Keywords: Bluetooth, STM32, Android, Wireless connection, Application development