

Design of an electronic lock system using smart RFID swipe cards

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Abstract: This topic focuses on designing and implementing an electronic lock system based on RFID technology. In practice, the necessity of advanced security solutions such as electronic lock systems has become clearer than ever. The objective of the topic is to build a highly secure, convenient electronic lock system suitable for various usage environments. The research method combines RFID technical theory with experimental design and application deployment on smart swipe cards. The expected result is an effective electronic lock system, contributing to the development of the security and asset management field.

Keywords: Electronic lock system, RFID, Security, Smart swipe card