

Design and manufacture of smart electrical sockets

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Abstract: In the context of the strong development of digital technology, the design and manufacturing of smart power sockets aim to meet the demand for efficient energy management in construction projects. This topic focuses on researching technical solutions to integrate sensors and IoT network connectivity into traditional power sockets. The approach includes both theoretical aspects of system design and practical implementation of applications on the Arduino platform. The expected results not only contribute to technological improvements in the field of electronics and telecommunications but also bring significant benefits in terms of energy efficiency and user convenience.

Keywords: Power socket, IoT, energy management, system design, Arduino