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DESIGN AND DEVELOPMENT OF AN PROTOTYPE INTERCOM SYSTEM

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ABSTRACT

Effective communication within buildings is essential for maintaining safety, coordination, and operational efficiency. This study presents the design and development of a prototype intercom system using the Arduino microcontroller platform as the main control unit. The project aims to develop a cost-effective, reliable, and easy-to-implement communication system that enables two-way voice transmission between connected stations. The prototype is intended for use in small offices, schools, residential buildings, and other indoor environments where internal communication is necessary.

Keywords: *two-way communication, prototype development*

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