

Electronic Stethoscope

Abstract:

- The electronic stethoscope project involves the development of a modern stethoscope enhanced with Bluetooth technology for wireless transmission of heart and lung sounds.
- This project integrates a conventional stethoscope head with an electronic sensor and microcontroller unit.
- The sensor captures physiological sounds and converts them into digital signals.
- A microcontroller processes the digital signals and transmits them wirelessly using a Bluetooth module to a paired smartphone or computer.
- This project aims to improve healthcare diagnostics by enabling real-time, remote sharing of patient auscultation data among medical professionals and facilitating telemedicine applications.
- The integration of Bluetooth technology enhances the versatility and accessibility of traditional stethoscope functionalities in modern medical practice.

