

IoT Based Phototherapy Machine

Abstract

The phototherapy also called as a light therapy is used extensively to reduce the high bilirubin levels of the newborns suffering from jaundice. This light therapy consists of exposure to daylight or to specific wavelength of light using light emitting diodes, lasers, fluorescent lamps, dichroic lamps or very bright, full spectrum light. This project is used to solve this condition with the help of Phototherapy machine. In the Existing system the nurse or doctor need to monitor the baby manually at Regular intervals. There may be large number of babies in a hospital so, monitoring each of them is not easy. In this project we have implemented a prototype capable of sensing the temperature, control the exposure time, and automatically control the machine. Doctor can monitor and control the device in his room. Additional Heartbeat sensor, temperature sensor, weight calculator are included. Also the proposed system is less cost compared to previous system.

Reference

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