MULTIPURPOSE MEDICAL ASSISTANT ROBOT (NURSE-BOT) BASED ON IoT

A PROJECT REPORT

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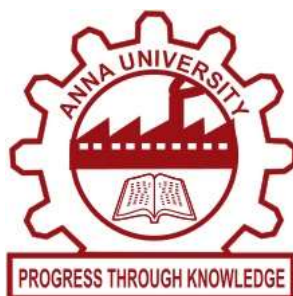
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BONAFIDE CERTIFICATE

Certified that this project report "MULTIPURPOSE MEDICAL ASSISTANT ROBOT (NURSE-BOT) BASED ON IoT" **is a Bonafide work of** "DEVANAND K (312819115008), JONATHAN J (312819115014), ARAVA JOHN SATHYA (312819115301)" **who carried out the project work under my supervision.**

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ABSTRACT

The purpose of this project is to describe recommendations towards the design and direction of development for Nursing Robots from the standpoint of mechatronics engineering students. Efforts to introduce robot technologies in nursing practice and to use them in elderly and high-tech healthcare environments have begun in developed countries like Japan. Companies are developing various types of robots although their types and functionalities continue to require a clear identification and definition. Regardless, robot developments for health care purposes are progressing well to meet universal technological demands. The active hospitals are aspiring to accelerate services to patients and reduce the burden of doctors and nurses by reducing the number of mistakes. The main purpose of this project is to develop a Nurse Robot system that acts as a diagnostic device that is programmable with a multi-function manipulator designed to help doctors and help patients recovering better. The main contribution of this project is to set a foundation to a multi-functional robotic system that works on reading human vital signs. The system will be initially implemented using the WIFI Bluetooth networking development board that enables us to use multiple sensors for the reading pins. The output pins are used for the robot interaction with the patients, based on the input data. There are four motors attached to the bottom of the system which are controlled by the drivers and the motion can be controlled from the mobile phone of the nurse.

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