THE DC FAN BY MULTY SENSOR

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ABSRACT

This project presents innovative prototype design of electric fan with smart characteristic. This an automatic fan temperature controller which uses the temperature surrounding to control the speed of the dc fan. This project is designed for uses in home applications by automatically. The idea is based on the problem that occurs in human's life by improving and innovating the technology. The DC Fan by Multi Sensor is used Pic16F877A compare to others projects that used Arduino. The cost that used PIC is cheaper than Arduino. Besides that, as a students others advantages is more knowledge such as how to used software MPLAB, PIC kit and Proteus. The software MPLAB is study about to create coding for PIC. The PIC kit software is used to programme the PIC using PIC programmer. Then Proteus software used to design the schematic circuit. This project also unique because its involves two sensor which is sensor motion sensor and temperature sensor. This project is design to control the speed of fan depend on the temperature surrounding and the human movements. This is to ensure the cooling process operates more efficiently and effectively, especially for a large space application and in hot weather due to global warming. By applying the circuit, it offers a better life for human. The circuit is also suitable for disabled people who have difficulty to switch on the fan The circuit can be manipulated by diversifying its function as a detector, where it can produce an light signal when have human movements. The results from this projects is show the device that design capable to follow and read the command of the coding. The feedback of this project is more effective and could reduce the cost of electric.

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