

SATELLITE DISH POSITIONING CONTROL BY DC MOTOR USING IR REMOTE CONTROL

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ABSTRACT

In this paper, PIC microcontroller was designed to develop a satellite dish positioning system which can be operated by using a remote control. The main point of using a dish is to receive signal from satellites and other broadcasting sources. In order to get the exact angle of position of the dish, it needs to be adjusted manually. In order to overcome the difficulty of adjusting manually, this paper helps in adjusting the position of the dish through a remote control. Remote control acts as a transmitter whose data is received by an IR receiver which is interfaced to a microcontroller of PIC 16F877A. The remote control sends coded data to the receiver whose output is then sent to the microcontroller.

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1. INTRODUCTION

There are many commercial communications satellites in the geosynchronous orbit. Geostationary satellites are located in orbit directly above the equator and stay in the same place in the sky since they go around the earth at the same angular speed as that of the earth as it rotates. Satellite locations may thus be defined by longitude only. **Geo Orbit position** is the longitude position around the geostationary orbit. The satellites are all approximately fixed in the sky above the equator. Negative orbit position numbers are degrees West from Greenwich meridian. Positive numbers are degrees East. The use of East and West longitudes is popular for public use since the numbers are smaller. Use of degrees East only (0 to +360deg, going East from

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