



Department: Electrical and Computer Engineering

Project: Voice Controlled Robot

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Project Abstract

The proposed project is a voice-controlled robot, where the primary focus of the project is speech recognition. The final design will demonstrate signal processing to analyze speech and then decipher a voice command given by the user. The command is then sent to the robot wirelessly using XBee modules to perform the spoken command. It is expected to work under specified conditions discussed later in the report. Speech is very distinct and has many characteristics and features that separate words from each other. Using different algorithms and the knowledge from the observations made from experimentation, the voice recognition system will be able to take the characteristics from a sound input and compute if the spoken word is one of the predetermined commands.