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A Project Report On

Voice Controlled Robot

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By

Anil Kumar.K.N	**(4VV09EC400)**
Arjun.R	**(4VV09EC401)**
Girish Kumar.M.R	**(4VV09EC405)**
Srinivasa.M.K	**(4VV08EC063)**

Under the Guidance of

Mr. Sudheesh.K.V

Assistant Professor, Dept of E&C

VIDYAVARDHAKA COLLEGE OF ENGINEERING

Mysore - 570 002

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ABSTRACT

Our project elucidates the research and implementation of voice controlled robot. The robot is controlled through connected speech input. The language input allows a user to interact with the robot which is familiar to most of the people. The advantages of speech activated robots are hands-free and fast data input operations. In future, it is expected that speech recognition systems will be used as man-machine interface for robots in rehabilitation, entertainment etc. In view of this, a aforementioned system is a source of learning process for a robot which takes speech input as commands and performs some navigation task through a distinct man machine interaction with the application of the learning. The speech recognition system is trained in such a way that it recognizes defined commands and the designed robot navigates based on the instruction through the Speech Commands. The medium of interaction between humans and robot is on the processing of speech (words uttered by the person). The complete system consists of three subsystems, the speech recognition system, a central controller and the robot .we have studied the various factors such as noise which interferes speech recognition and distance factor. The results prove that proposed robot is capable of understanding the meaning of speech commands.