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SECURITY CAM SERVER SYSTEM

PROBLEMS STATEMENT

Security cam server system is a one type of security nowadays; however with a Raspberry Pi (RPi) it gave new twist and became more portable. RPi a Single Board Computer and it will use as embedded server for the whole system. A server that has been installed on the RPi, only can be access by administrator or users that been registered manually by admin.

PRODUCT DESCRIPTION

The main part of this server is to function as device which allows user to be able to monitoring our property while we are not home or even when we are sleep. The best part is this all made possible by simply surf through internet, and monitoring this streaming using web page via server that has been created. So even we are not watching, the data will save and send it through cloud storage

NOVELTIES

- Use of Raspberry Pi to stream live videos to the secure cloud storage.
- Ability to control servo motors to adjust different camera angles.
- Access to video and controls are password – protected.
- Simple setup and low power requirement.

POTENTIAL APPLICATION

The overall result has obtained from the project. The objective of this research has been successfully accomplished. This security camera server system can monitor and streaming in internet. The user can control the direction of the cam to make a larger inspection. The camera can move in four main directions whether it is up, down, left or right. The data also have been successfully uploaded to the Google drive when it detects any motion that occurs in the surrounding. It is the best way to keep or property in safe. This system also has been tested to real world application and this system is stable and can function continuously. The entire problem has been overcome by testing error one by one.
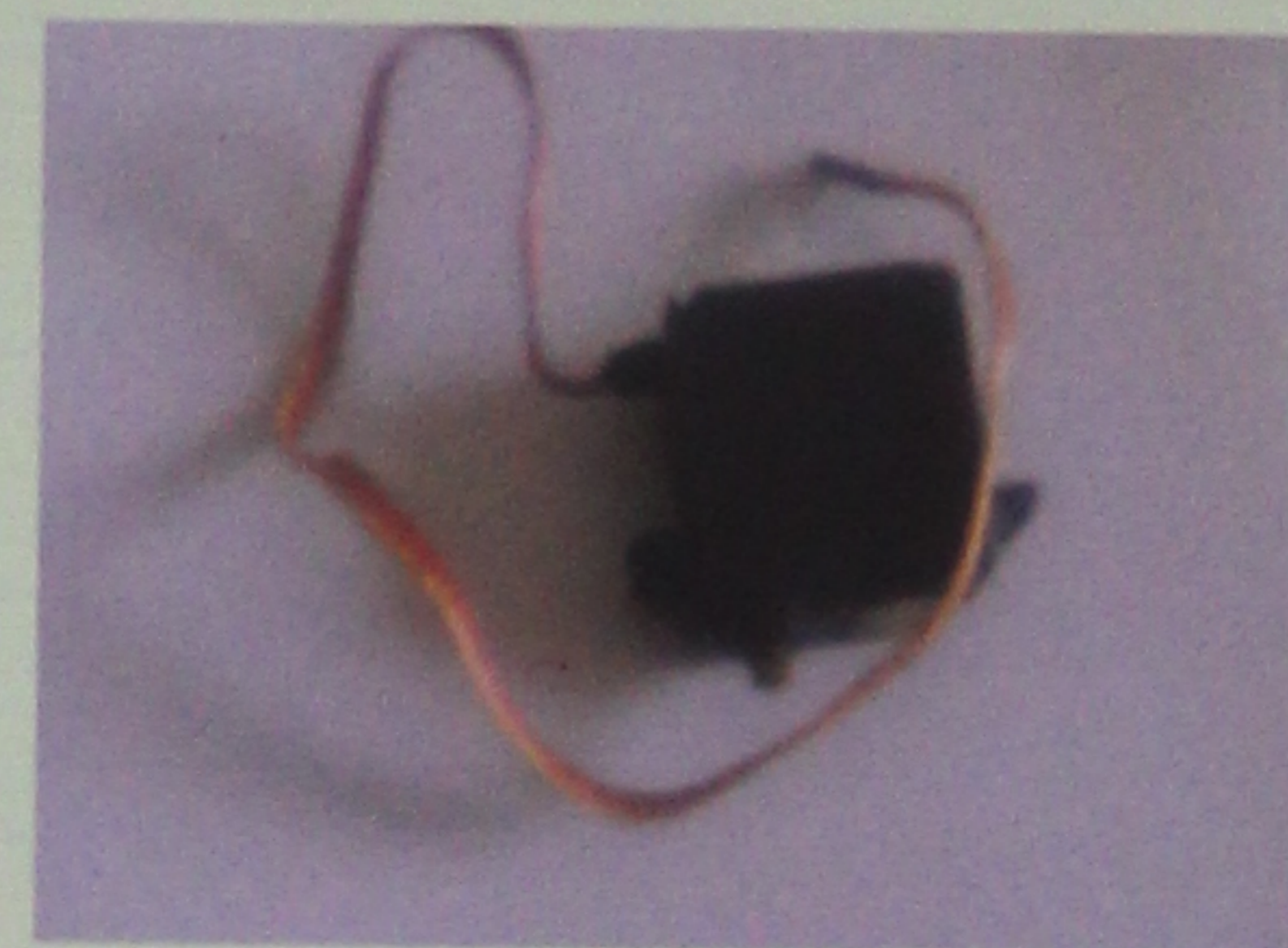
PROCESS FLOW

Raspberry Pi

Ardiuno

Servo Motor

Webcam

PRODUCT PERFORMANCES

As a result of observation and research through this project; the project operates completely. The video is streaming through the webpage. Even the streaming pictures are not in the good quality. This is because of cheap webcam. The real time video streaming are in a low quality. To make it faster need better internet connection and also change the time capture of picture in the motion software. This video streaming is good to make first impression for potential users to make a decision.