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**ABSTRACT**

IoT involves extending Internet connectivity beyond standard devices, such as desktops, laptops, smart phones and tablets, to any range of traditionally dumb or non-internet-enabled physical devices and everyday objects. Embedded with technology, these devices can communicate and interact over the Internet, and they can be remotely monitored and controlled. With the arrival of driverless vehicles, a branch of IoT, i.e. the Internet of Vehicle starts to gain more attention. With the world developing in the sector of IoT (Internet of Things) there are many latest technological update which are based on that concept. The Wireless Video Surveillance Robot uses the similar concept in its implementation.

The Raspberry pi is the core component in the design and structure of robot. The robot is controlled by controller through wireless network which has the radius of about 92m. The robot is mounted with high quality camera for real time transmission of video.

**KEY WORDS:**- IoT, Robot, Surveillance, Raspberry Pi

**TABLE OF CONTENTS**

Letter of Approval…………………………………………………………….….…...I

Copyright..………………………………………………………………...…………II

Acknowledgement…………………..………………………………….……………III

Abstract………………………………..……..………………………..………….….IV

Table of contents……………………………..………….……………………..…......V

List of figures…………………………..……………………….……………………VI

Abbreviations…………………………………………......……………………..….VII

1. Introduction……………………………………………………..………....…1
   1. Brief Introduction…………………………………………..……………1
2. Problem Definition……………………..…………………..………….……..3
3. Objectives ……………………………………………………..…..………....4
4. Literature Review…………………………………………….…..…….….…5
5. Requirement Analysis……………………………………….…..………..….6
   1. Project Requirements………………………………………..…....……..7
      1. Block Diagram…………………………….………..…..........7
      2. Connection Diagram ……………………..……….………….8
   2. Hardware Requirement….…………………………………....………9
      1. Raspberry Pi………………………………………………….………9

5.2.1.1Specification…………………….…………………...……...…10

5.2.1.2Features.…………..………………………….………..….……11

5.2.2 DC Motors……………………………………………….………..……13

5.2.3 Motor Driver L298N…………………………………………..……….15

5.2.4 Raspberry Pi Camera Module……...….…………...………….....……16

5.2.5 Power Supply…….………………..………………………..………...18

5.3 Software Requirement/Programming….……………………………….19

5.3.1 Python…………………………………………………………..19

5.3.2 Flask…………………………………………………………….20

5.3.3 jQuery………………………………….………….……………21

5.3.4 MJPEG Streamer ……………………………....……………….21

5.3.5 FFMPEG………………………….…………………………….21

5.3.6 HTTP …………………………………………..………………22

5.3.7 PTTY …………………………………………………..……….23

1. Methodology………………….…………………………….………………24
   1. Flowchart.………………………...…………………...……………….24
2. Implementation Details……………………..……….…...…………………25
3. Applications………………………...………………………………………27
4. Results and Output………………………………..………………………...28
5. Future Enhancement………………………..………………………………31
6. Conclusion ………………………………………..………..………………32
7. References ……………………………………..……….………………….33

APPENDIX A: Component list and cost expenditure………………………….34

**LIST OF FIGURES**

Figure. 1. Block Diagram………………………………….……….......………………7

Figure. 2 Connection Diagram…………………………………………………………8

Figure. 3 Pin Diagram and Raspberry Pi..………………………….…..……….….…12

Figure. 4 DC Motor…………….………………………….……..……..………….…13

Figure. 5 L298N Motor Controller Board……………..………………...…...…….…15

Figure. 6 Raspberry Pi Camera………………………...….……....…....….................16

Figure. 7 Lipo Rechargeable battery………………………..…...……………………18

Figure.8 Flowchart for Video Surveillance….……………...………………………..24

Figure.9 Video Surveillance Robot…………………………………………………..28

Figure.13 Robot with Web View ……………………………..…………...………….29

Figure.14 Login Page ……………………………..…………………….……………29

Figure.15 Screenshot of Robot controller page ……………….……………..……….30

Figure.16 Screenshot of Snapshot taken by Robot …………………………...………30

**ABBREVIATIONS**

|  |  |
| --- | --- |
| IOE | Institute of Engineering |
| BEX  IoT  SOC  USB  CPU  LAN  HDMI  MPEG  GPU  GPIO  UART  FFMPEG | Bachelor in Electronics Engineering  Internet of Things  System on a Chip  Universal Serial Bus  Central Processing Unit  Local Area Network  High Definition Multimedia Interface  Moving Picture Experts Group  Graphics Processing Unit  General Purpose Input/output  Universal Asynchronous Receiver/Transmitter  Fast forward(Moving pictures Experts Group |
|  |  |
|  |  |