

Johns Hopkins University

Project 6

Quad Copter Streaming Live Video RPi to Host via WiFi

Miles Gapcynski

EN.605.715.81.FA19 - Software Development for Real-Time Systems

Professor Doug Ferguson

10/27/2019

Contents

Project 6 Information 3

Video Demonstration 4

Project 6 Information

This project involved installing Raspbian OS on a Raspberry Pi, connecting the Pi to a network via WiFi, and streaming video from the Pi over the network to a host machine. The project requirements are specified in Project 6 Quad Copter downloading Video RPiToHostWiFi v3 document, and additional supporting documents detail how to setup a Raspberry Pi for streaming video over WiFi. No additional requirements were derived from the project documentation. In addition, designing and implementing hardware and software was not necessary for this project as we are using the Motion software package to control the USB webcam and host a web server that displays the video feed from the webcam. Thus, this document will not contain schematic, board layout, or software design diagrams.

Video Demonstration

A video demonstration of the Raspberry Pi hosting a web server with a video feed coming from the USB webcam can be found at the following links:

<https://www.youtube.com/watch?v=JkMGQUAhokk>

https://www.dropbox.com/s/5mbva7jbypczjt5/Miles_Gapcynski_EN_605_715_81_Project_6.mp4?dl=0