**Raspberry Pi Final Project Title**

**Project Team Members**

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**Project Summary**

We will be creating a wireless security camera controlled with raspberry pi. A host machine will be able to view a live stream of the camera along with controlled left and right motion. The camera will be connected to a second raspberry pi and communicate with the host through radio frequency/Wi-Fi.

**Goals and Objectives**

Our goal is to create a controllable wireless security camera using raspberry pi. The objective is to be able to view and control the camera using a touchscreen interface.

**GPIO**

Our project will have two different devices. One to control and receive video from the camera, and another to actually run the camera and send the video to the host.

The host will implement:

* An LCD touchscreen
* Radio Frequency Transceiver
* Raspberry Pi
* Independent Power Supply

The security camera will implement:

* Raspberry Pi
* Raspberry Pi Camera
* Ultrasonic Sensor (for motion detection)
* Servo (left and right rotation)
* Radio Frequency Transceiver
* Independent Power Supply

**GUI**

The GUI will allow the user to view the video from the camera on the left hand side of the screen. On the right hand side, the user will be able to rotate the camera left and right. Across the bottom the user will be able to send commands to the security camera.

**GitHub Repository**

This project's GitHub repository is located at: https://github.com/Jacob-Bordelon/Pi\_Eye

**Gantt Chart**

